August 28, 2015

Ms. Robin Futch
Georgia Department of Natural Resources
Response and Remediation Program
2 Martin Luther King, Jr. Drive
S.E. Suite 1462, East Tower
Atlanta, Georgia 30334-9000

RE: Voluntary Remediation Program
Semi-Annual Status Report No. 6
Tara Shopping Center
8564 Tara Boulevard, Jonesboro, Clayton County, Georgia
Tax Parcel ID 13242D B001; HSI Site No. 10798

Dear Ms. Futch,

On behalf of Ashland Inc. (Ashland), EHS Support LLC (EHS Support) prepared the attached Semi-Annual Progress Report to summarize remedial activities completed at the Tara Shopping Center located at 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia between January 2015 and August 2015. Remediation activities are being complete under the Georgia Voluntary Remediation Program (VRP).

In 2015, Ashland finalized access agreements with property owners of 117 Fayetteville Road (east) and 8557 Tara Boulevard (west) for the purpose of completing off-site groundwater delineation. Monitoring wells were installed in June 2015 and sampled in July 2015. Data collected from the key critical data sets used to delineate the nature and extent of groundwater migrating from the Site were used to update the 2011 preliminary Conceptual Site Model (CSM) for groundwater. This report briefly highlights the initial data gaps presented in 2011 and updates the Site characterization to support the initial conceptualization that groundwater within the residuum and bedrock water bearing zones is ultimately discharging to the unnamed creek west of the Site. Based on the newest assumptions, isoconcentrations maps depicting the nature and extent of groundwater impacts off-site are being finalized for initial review by Georgia EPD and will be provided under a separate submittal

We are interested in scheduling a project meeting following the agency's review of this document. The objective of the meeting will be to discuss current status of groundwater delineation, preliminary assessment of remedial alternatives for off-site groundwater and the site conceptual exposure model.

If you should have any questions regarding the information presented, please contact me at michelle.stayrook@ehs-support.com or 412-807-1494. Alternatively you can contact Kristin VanLandingham at k.vanlandingham@ehs-support.com or 850-251-0582

Sincerely,

Michelle Stayrook

Michelle Stayrook
EHS Support
Project Manager

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Attachments

cc: Michael Dever, Ashland (email)
Rich Williams, Esq. Ashland (email)
Eric Nathan, Tara Retail Holdings, Inc.
Amy Magee, King and Spalding
Kristin VanLandingham, P.E. EHS Support (email)

2015 SEMI-ANNUAL VRP PROGRESS REPORT

Tara Shopping Center
8564 Tara Boulevard
Jonesboro, Clayton County, Georgia
Tax Parcel 13242D B001

Former Dry Cleaner Site
HSI# 10798

Prepared For:

Ashland Inc.
5200 Blazer Parkway
Dublin, Ohio 43017

Prepared By:

EHS Support
consider it done

August 28, 2015

CERTIFICATION

"I certify under penalty of law that this *2015 Semi-Annual VRP Progress Report* prepared for the Tara Shopping Center Former Dry Cleaner Site (HIS# 10798 located at 8564 Tara Boulevard, Jonesboro, Clayton County, George, Tax Parcel 13242D B001 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 engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/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."

Kristin A. VanLandingham, P.E. PE035825
Printed Name and GA PE/PG Number

8/27/15
Date

Signature and Stamp

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 engineer/professional geologist who is registered with the Georgia State Board of Registration for Professional Engineers and Land Surveyors/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."

Richard W. Henterly PG002063
Printed Name and GA PE/PG Number

8-28-2015
Date

Signature and Seal

TABLE OF CONTENTS

1.0 Introduction 1

2.0 Soil Remediation 2
- 2.1 Uniform Environmental Covenant 2
- 2.2 Post Soil Remediation Performance Monitoring 2
  - 2.2.1 Field Sampling Procedures 2
  - 2.2.2 Performance Results 3
- 2.3 Remedial Performance Discussion 3

3.0 Off-Site Groundwater Investigation 5
- 3.1 Monitoring Well Installation 5
- 3.2 Survey 6
- 3.3 Monitoring Well Sampling 6
  - 3.3.1 Gauging Event 6
  - 3.3.2 Monitoring Well Sampling 7
  - 3.3.3 Analytical Results 7
- 3.4 Stream Sampling 8
  - 3.4.1 Sample collection 8
  - 3.4.2 Analytical Results 9
- 3.5 Data Evaluation 9

4.0 Updated Preliminary Groundwater Conceptual Site Model 10
- 4.1 Hydrogeologic Setting 10
  - 4.1.1 General Conceptualization of Groundwater Characteristics 10
  - 4.1.2 Aquifer and Structural Setting 10
- 4.2 Groundwater Flow Domain 13
  - 4.2.1 Residuum Water-bearing Zone 13
  - 4.2.2 Bedrock Water-bearing Zone 14
- 4.3 Groundwater Plume Characteristics and Extents 14
  - 4.3.1 VOC Trends and Plume Stability 14
  - 4.3.2 Lateral Plume Extents 15
  - 4.3.3 Vertical Plume Extent 16
- 4.4 Groundwater Flux and Creek Discharge Estimate 16
- 4.5 Summary and Conclusions 17

5.0 Remedial Alternatives 19
- 5.1 Groundwater 19
- 5.2 Qualifying Property Status 19

6.0 Vapor Intrusion Evaluation 20

7.0 Schedule 21

8.0 References 22

LIST OF TABLES

Table 1 Summary of VOC Performance Monitoring Analytical Results
Table 2 Monitoring Well Construction Details
Table 3 Groundwater Sampling Program (June/July 2015)
Table 4 Summary of Groundwater Elevation Data – June 2015
Table 5 Summary of VOC Analytical Results – June/July 2015
Table 6 Summary of Surface Water Analytical Results – July 2015

LIST OF FIGURES

Figure 1 Site Plan, Tax Parcel Information and Qualifying Property Boundary
Figure 2 Source Area Remediation Performance Monitoring Groundwater Analytical Results
Figure 3 VOC Concentration Trends in MW-3 Cluster
Figure 4 VOC Concentration Trends in MW-8 Cluster
Figure 5 VOC Concentration Trends in MW-9 Cluster
Figure 6 VOC Concentration Trends in MW-10 Cluster
Figure 7 VOC Concentration Trends in MW-11 Cluster
Figure 8 Monitoring Well Network
Figure 9 Cross Section Layout Map
Figure 10 Cross Section Map A-A', B-B', C-C'
Figure 11 Cross Section Map D-D'
Figure 12 Structural Surface Contour Top of Bedrock
Figure 13 Upper Residuum Potentiometric Surface Contour: June 29, 2015
Figure 14 Lower Residuum Potentiometric Surface Contour: June 29, 2015
Figure 15 Bedrock Potentiometric Surface Contour: June 29, 2015
Figure 16 Historical Groundwater Analytical Results (2006 – 2015)
Figure 17 Hydrogeologic Framework Site and Study Area

LIST OF APPENDICES

Appendix A Tabulated Professional Hours
Appendix B Groundwater Sampling Logs
Appendix C Laboratory Analytical Data (CD)
Appendix D Trend Graph Source Data
Appendix E Well Construction Logs

ACRONYMS

Ashland	Ashland Inc.
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
cis-1,2-DCE	cis-1,2dichloroethene
CSM	Conceptual Site Model
COCs	constituents of concern
DOT	Department of Transportation
EHS Support	EHS Support LLC
EPD	Environmental Protection Division
ft/d	feet per day
ft. msl	feet above mean sea level
ISS	In-situ Solidification/Stabilization
ISWQSs	In Stream Water Quality Standards
µg/L	micrograms per liter
mg/L	milligrams per liter
MNA	monitored natural attenuation
OSWER	Office of Solid Waste Emergency Response
PCE	tetrachloroethene
PVC	polyvinyl chloride
RRS	Risk Reduction Standard
TCE	trichloroethene
VOCs	volatile organic compounds
VRP	Voluntary Remediation Program
USEPA	United States Environmental Protection Agency

1.0 INTRODUCTION

On behalf of Ashland Inc. (Ashland), EHS Support LLC (EHS Support) prepared this semi-annual progress report to summarize remedial activities completed at the Tara Shopping Center located at 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia (referred to as the "Site" or "Property"). The Site is identified as Georgia Hazardous Site Index Number 10798. Effective June 2012, remediation activities are being complete under the Georgia Voluntary Remediation Program (VRP) (Georgia Department of Natural Resources [GDNR] 2012a). The objective of this progress report is to provide a status update on VRP activities completed between January 2015 and August 2015. The key focus areas discussed in this report are listed below.

- Site Uniform Environmental Covenant
- Post Soil Remediation Performance Groundwater Monitoring
- Off-site Groundwater Delineation (Nature and Extent)
- Update Groundwater Site Conceptual Model
- Monitored Natural Attenuation Screening
- Qualifying Property Status
- Vapor Intrusion Assessment Screening

On June 25, 2015 the Georgia Environmental Protection Division (EPD) approved the following schedule amendments due to access delays at off-site properties.

Document	**Original Date**	**Approved Date**
Semi-Annual Progress Report	June 28, 2015	August 28, 2015
Groundwater Corrective Action Work Plan	June 28, 2015	January 28, 2015

Based on comments received by the EPD and for ease of review of supporting documents, this semi-annual status report is presented in report format. A summary of professional service time is provided as **Appendix A**.

2.0 SOIL REMEDIATION

In-situ soil remediation to address source material in the vicinity of the former dry cleaner was completed in 2013. A Soil Remediation Completion Report was submitted on March 14, 2014 (EHS Support 2014a). The Georgia EPD approved completion of soil remediation on September 5, 2014 (GDNR 2014). The Director of EPD approved a Uniform Environmental Covenant establishing land and groundwater use restrictions at the Site on August 6, 2015. A summary of post soil remediation activities is provided below.

2.1 Uniform Environmental Covenant

Pursuant to 44-16-4 (d) of the Uniform Environmental Covenants Act, the proposed final text of the Uniform Environmental Covenant establishing land and groundwater use restrictions at the Site was mailed to the entities listed in 44-16-7 on June 26, 2015. Delivery confirmations were submitted to Georgia EPD electronically on August 10, 2015. A Site layout identifying the Property and adjoining property ownership subject to Uniform Environmental Covenant notification is provided as **Figure 1**.

Pursuant to Section 12 of the Uniform Environmental Covenant (*Recording of Environmental Covenants and Proof of Notification*), the covenant will be filed with the Clayton County recorder within 30 days after the Director's signature. Stamped copies will be submitted to the Georgia EPD and the entities listed in 44-16-7 within 30 days of recording.

A monitoring and maintenance plan outlining the inspection, maintenance and reporting requirements to maintain engineering controls at the Property was provided as a standalone document with the with Uniform Environmental Covenant. The first Annual Report is due to Georgia EPD on June 15, 2016.

The permanent granite marker identifying the Type 5 soil restricted use area was ordered on June 12, 2015 through the Atlanta Monument Company. It is anticipated the granite marker will be installed September 30, 2015.

2.2 Post Soil Remediation Performance Monitoring

The Soil Remediation Completion Report proposed semi-annual groundwater monitoring at five monitoring well clusters immediately downgradient of the former source area to evaluate the effectiveness of soil remediation to decrease contaminant concentrations in groundwater. Performance monitoring was completed by Antea Group in June 2014, January 2015, and July 2015 at the monitoring wells listed below.

- Upper Residuum – MW-3A, MW-8A, MW-9A, MW-10A, and MW-11A
- Low Residuum – MW-3B, MW-8B, MW-9B, MW-10B, and MW-11B
- Bedrock– MW-8C, MW-9C, MW-10C, and MW-11C

Monitoring well locations are shown on **Figure 2**.

2.2.1 Field Sampling Procedures

Groundwater samples were collected using low flow purging and sampling techniques in accordance with United States Environmental Protection Agency (USEPA) Operating Procedure SESDPRPC-301-R3, Section 3.2. Monitoring wells were purged until the following parameters achieved stabilization: pH (+0.1 s.u); specific conductance (+5%), dissolved oxygen (+0.2 milligrams/liter [mg/l]), and turbidity (<10 nephelometric turbidity units [NTU]).

Groundwater samples were sent under chain of custody to TestAmerica in Savannah, Georgia and analyzed for volatile organic compounds (VOCs) using USEPA SW846 method 8260B. A copy of the January and July 2015 groundwater sampling logs is provided as **Appendix B**. A copy of the January and July 2015 analytical laboratory reports is provided as **Appendix C**. The results from the June 2014 sampling event were previously presented in the December 24, 2014 VRP progress report (EHS Support 2014b).

Review of the 2015 groundwater sampling logs identified the following deviations from the sampling procedures:

- Turbidity was not recorded in January 2015; however, it was recorded in July 2015.
- The pump intake in lower residuum and bedrock monitoring wells was above the well screen; however, groundwater drawdown stabilized at each well location with the exception of bedrock monitoring wells MW-8C and MW-10C in July 2015.
- Several monitoring wells were purged using a peristaltic pump. The sample collection method is under evaluation

2.2.2 Performance Results

Analytical results from the three sampling events are provided on **Table 1.** The primary constituents of concern (COCs) tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichloroethene (cis-1,2-DCE) and vinyl chloride are presented on **Figure 2**.

Residuum Monitoring Wells (A and B Zones)

PCE and TCE were detected above the Type 1 Risk Reduction Standard (RRS) of 5 micrograms per liter (µg/l) in upper residuum monitoring wells MW-3A, MW-8A, MW-9A, and MW-10A and lower residuum monitoring wells MW-8B and MW-10B. Degradation compound cis-1,2-DCE continues to be detected in monitoring wells with PCE concentrations exceeding 200 µg/l. Vinyl chloride was not detected in monitoring wells sampled.

Bedrock Monitoring Wells

No VOCs were detected above the Type 1 RRSs in bedrock monitoring wells MW-8C, MW-9C, and MW-11C. PCE was detected in bedrock monitoring MW-10C at a concentration of less than 10 µg/l but above the Type 1 RRS of 5 µg/l. Monitoring well MW-10C is located immediately down gradient of the soil treatment area.

The approved Uniform Environmental Covenant establishes groundwater use restrictions at the Site; therefore eliminating exposure to groundwater.

2.3 Remedial Performance Discussion

Per EPD's February 20, 2015 VRP progress report comment letter, trend graphs evaluating COCs concentrations at performance monitoring wells from 2006 to 2015 are presented as **Figure 3 through 7**. Critical remedial activities including the permanganate injection in 2011 and in-situ soil remediation in 2013 are noted on the graphs at their corresponding dates of implementation. For concentration values less than the laboratory reporting limit, half the reporting limit is charted. Source data used to generate trend charts is provided in **Appendix D**.

PCE concentrations in groundwater are responding to in-situ treatment. While degradation into daughter products does appear to be occurring at the Site, parent product concentrations are on the decline. Within one year of potassium permanganate injection (2009), evidence of the injection was observed in near

residuum monitoring wells MW-11A and MW-11B (**Figure 7**). Approximately 1.5 years later, evidence of the injection was observed in down/cross gradient residuum monitoring wells MW-8A and MW-8B (**Figure 4**). This is evidenced by the visual presence of discoloration (purple hue) in samples collected from monitoring wells MW-8A, MW-8B, MW-11A and MW-11B.

Approximately 18 months following completion of In-situ Solidification/Stabilization (ISS) in 2013, analytical results show evidence of declining concentrations immediately downgradient of the former source area in monitoring wells MW-10A and MW-10B (**Figure 6**). Confirmation of declining concentrations will be evaluated through additional groundwater monitoring.

Based on soil conditions of low permeable silty clay and low hydraulic conductivity slow responses in decreasing VOC concentrations in groundwater are anticipated.

The next performance monitoring event is scheduled on or before January 31, 2016. The results will be presented in the next semi-annual progress report.

3.0 OFF-SITE GROUNDWATER INVESTIGATION

In 2015, Ashland finalized access agreements with property owners of 117 Fayetteville Road (east) and 8557 Tara Boulevard (west) for the purpose of completing off-site groundwater delineation. The Georgia EPD approved the locations on May 21, 2015. Monitoring wells were installed by Cascade Drilling, L.P in June 2015. Groundwater samples were collected by Antea Group in July 2015. A summary of monitoring well installation and sampling activities is provided below. A site layout identifying the Property and adjoining property ownership information is provided as **Figure 1**.

3.1 Monitoring Well Installation

Monitoring wells MW-23A (upper residuum) and MW-23B (lower residuum) were installed upgradient of the Site at 117 Fayetteville Road (private property). Monitoring wells MW-15C and MW-24C (both bedrock wells) were installed downgradient of the Site at 8557 Tara Boulevard (Former Hoops and Fitness). The monitoring wells were installed in accordance with the US Environmental Protection Agency (Region 4) monitoring wells guidance[1]. The current monitoring well network is shown on **Figure 8**.

New monitoring wells were installed using the Roto-sonic drilling methods, which advances concentric hollow drill stems or casing by rotation and axial vibration of the casing. Soil samples and bedrock cores were collected using 3- and 4-inch diameter drill casing. Each borehole was logged by an EHS Support qualified field geologist. After the 10-foot length sample core was procured, an outer 6-inch casing was advanced to the next sample interval before the next sample was collected. Typically, potable water was only used while coring in bedrock.

All monitoring wells were constructed with 2-inch diameter polyvinyl chloride risers (PVC), 10 foot 0.010-inch slotted screen, and flush-mounted protective covers set into 4-inch thick concrete pads. A 20/40 sieve size silica sand pack was placed approximately two feet above the top of screen, and a minimum 2-foot thick bentonite seal was placed on top of the sand pack and hydrated. The remainder of the annulus was tremie-grouted to the surface with Type I Portland cement. A copy of the soil boring and monitoring well construction logs is provided in **Appendix E**. Monitoring well construction logs for monitoring wells installed in 2012 (MW-18A/B, MW-19A/B/C, MW-20C) and 2014 (MW-19D, MW-21B/C, and MW-22 A/B) not previously submitted to EPD are provided in **Appendix E**.

Monitoring well MW-23A is installed 20 feet below ground surface (bgs) to monitor groundwater of the upper residuum. Monitoring well MW-23B is installed at the top of bedrock at 69.5 feet bgs to monitor groundwater in the lower residuum, immediately above the bedrock interface. Both boreholes were advanced by over-coring the holes using 6-inch diameter temporary casing.

Monitoring wells MW-15C and MW-24C were installed within the fractured bedrock. Monitoring well MW-15C was proposed adjacent to existing residuum monitoring well cluster MW-15A and MW-15B, due west of Tara Boulevard. Based on access limitations and security concerns, monitoring well MW-15C was installed approximately 440 feet north of MW-15A/B. Refer to **Figure 8**. The Georgia EPD approved this location in the field on May 21, 2015. Bedrock was encountered at 49 feet bgs. A 6-inch permanent casing was installed to a depth of 53 feet bgs to limit vertical migration of contaminants from the residuum water. The casing was grouted into place and allowed to set for a minimum of 24 hours before the borehole was advanced to the terminus depth of 71 feet bgs using 5.75-inch diameter drill casing. Monitoring well MW-15C was installed in fractured zone from 59.5 to 69.5 feet bgs.

[1] USEPA. 2013. Design and Installation of Monitoring Wells. No. SESDGUID-101-R1. January 29.

Monitoring well MW-24C was installed on the north side of the creek and is due north of MW-20C (located on the south side of the creek). Refer to **Figure 8**. Bedrock was encountered at 5 feet bgs. The borehole was advanced to a depth of 44 feet bgs using 6-inch casing. The monitoring well was installed in fractured zone from 39 to 44 feet bgs and is cross-screened with the interface of the creek. No permanent outer casing was installed due to limited thickness of residuum (<5 feet in thickness).

Each well was developed using a submersible pump in accordance with SESDGUID-101-R1. The drill cuttings and water generated during well installation activities were placed in Department of Transportation (DOT)-approved 55-gallon steel drums, labeled with the Site owner's name and address, and staged at the Site. Nexeo Solutions, LLC facilitated the removal and disposal of the drums as non-hazardous waste.

3.2 Survey

New monitoring wells were surveyed by Travis Pruitt & Associates on July 17, 2015. The top of the inner PVC casing, ground surface elevation and location coordinates were measured. The top of inner casing of existing monitoring well MW-17A was also resurveyed. Monitoring well MW-17A was not accessible during the previous survey event in November 2014. In addition, points in the unnamed creek were surveyed (SS-2) for the purpose of identifying the location of surface water samples. The well construction summary and elevation datum is provided as **Table 2**.

The geologic cross sections were updated with information obtained from new wells. A cross section location map is provided as **Figure 9**. The lithologic cross sections A-A' through D-D' are presented on **Figures 10 and 11**. An updated top of bedrock elevation contour map is provided as **Figure 12**. These figures are discussed further in **Section 4.0** (Groundwater Conceptual Site Model).

3.3 Monitoring Well Sampling

A comprehensive groundwater sampling event was completed in June and July 2015. Groundwater samples were collected from 31 monitoring wells. Three surface water samples (SS-1, SS-2, and OF-2) were collected from the unnamed creek due west and hydraulically downgradient of the Site. The groundwater sampling program is provided on **Table 3.**

The objectives of the sampling effort were:

- Collect performance groundwater data from existing Site wells to evaluate the efficacy of soil remediation (discussed in **Section 2.0**);
- Characterize the horizontal and vertical extent of constituents of concern migrating offsite;
- Evaluate contaminant concentrations at the receptor location (creek), and
- Collect preliminary biological and geochemical data to evaluate the biotic and abiotic processes responsible for degrading PCE in the groundwater

Groundwater samples were collected from "A" upper residuum, "B" lower residuum and "C/D" bedrock water bearing zones. Surface water samples collected downgradient of the stormwater culvert entering the stream from the south (OF-2) and locations downstream of the culvert (SS-1 and SS-2).

3.3.1 Gauging Event

On June 29 and 30, 2015, depth to water measurements were recorded from the entire monitoring well network. Depth to water and total depth measurements were recorded from the inner top of PVC casing to the nearest 0.01-inch. Depth to water measurements were used to calculate groundwater elevations within each water bearing zone. At the time of gauging, the creek banks were heavily overgrown and not

accessible.[2] Based on the shallow nature of the creek, the groundwater elevation within the creek was estimated based on ground surface elevation (assumed to be 0.5 feet above grade). A summary of calculated groundwater elevation data is provided on **Table 4**.

Groundwater elevation data was used to identify groundwater flow direction within upper/lower residuum and upper bedrock water bearing zones. Groundwater flow within the upper and lower residuum is to the west. Groundwater flow within the bedrock is to the west and northwest. Groundwater potentiometric surface maps are provided as **Figure 13** through **Figure 15** and discussed further in **Section 4.0** (Groundwater Conceptual Site Model).

3.3.2 Monitoring Well Sampling

Groundwater samples were collected from each monitoring well between July 1 through July 16, 2015 using low flow purging and sampling techniques in accordance with USEPA Operating Procedure SESDPRPC-301-R3. Groundwater samples were sent to TestAmerica in Savannah, Georgia and analyzed for VOCs using USEPA SW846 method 8260B. Analytical results from VOC sampling in July 2015 are provided on **Table 5**.

A review of the July 2015 groundwater sampling logs identified the following deviations from the sampling procedures:

- The pump intake in lower residuum and bedrock monitoring wells was above the well screen. However, groundwater drawdown stabilized at each well location with the exception of monitoring wells MW-8C, MW-10C, MW-15C, MW-18A, MW-19A, MW-21C, and MW-23A. A drawdown greater than three feet was observed.
- Several monitoring wells were sampled using a peristaltic pump. The sample collection method is under evaluation.
- MW-1A did not have a sufficient amount of water (<1.25 feet of water column); therefore, a grab sample was collected with a disposable bailer.

A copy of the July 2015 groundwater sampling logs is provided as **Appendix B**. A copy of the July 2015 analytical laboratory reports is provided on as **Appendix C**.

3.3.3 Analytical Results

Confirmation groundwater samples collected from the offsite residuum and bedrock monitoring well cluster MW-21B/C did not contain constituents of concern above the laboratory reporting limit. Based on two sample events, groundwater delineation to the southwest of monitoring well cluster MW-19A/B/C/D is complete. Chloroform was detected in MW-21C (2.0 µg/L) below the Type 1 RRS of 80 µg/L. No additional sampling is proposed from monitoring well cluster MW-21B/C.

Confirmation groundwater samples collected from the offsite residuum well clusters MW-22A/B did not contain constituents of concern above the laboratory reporting limit. Based on two sample events, groundwater delineation to the east of monitoring well cluster MW-13A/B/C is complete. Chloroform was detected in MW-22B (2.4 µg/L) below the Type 1 RRS of 80 µg/L. No additional sampling is proposed from monitoring well cluster MW-22A/B.

[2] A path to the creek was cleared at the end of the sampling event prior to surface water-sampling activities.

Initial groundwater samples collected from offsite residuum well clusters MW-23A/B did not contain constituents of concern above the laboratory reporting limit. Based the predominant groundwater flow direction from the Site in combination with the initial analytical results, groundwater delineation to the east of Tara Shopping Center is considered complete. Chloroform was detected in MW-23A (3.7 µg/L) and MW-23B (7.5 µg/L) below the Type 1 RRS of 80 µg/L. Benzene (6.7 µg/L), ethylbenzene (1.1 µg/L), toluene (5.4 µg/L), and xylenes 1.8 (µg/L) (BTEX) were detected in MW-23B. The benzene concentration slightly exceeded the Type 1 RRS of 5 µg/L. The presence of BTEX in this well is interpreted to be from an offsite source unrelated to the Site.

Groundwater samples collected from new bedrock monitoring wells MW-15C, MW-20C and MW24C exceeded the Type 1 RRS for PCE of 5 µg/L. Monitoring wells MW-20C and MW-24C are located at the creek boundary.

Quality assurance/quality control duplicate samples were collected from monitoring well MW-15C, MW-18B, and MW-19B.

Non-COCs Detections

- Acetone was detected below the Type 1 RRS of 100 µg/Lin groundwater samples collected from monitoring wells MW-8B, MW-8C, MW-9A, MW-10B, MW-10C, MW-11B, MW-13A, and MW-17A.
- Chloroform was detected below the Type 1 RRS of 80 µg/L in groundwater samples collected from monitoring wells MW-10A, MW-15C, MW-21C, MW-22B, MW-23A/B, and MW-24C.
- 1,2-dichloroethane was detected in monitoring well MW-19A above the Type 1 RRS of 5 µg/ at a concentration of 90 µg/L.
- Trans-1,2-dichlorothene was detected below the Type 1 RRS of 100 µg/L in groundwater samples collected from monitoring wells MW-5B, MW-12A, MW-13A, MW-15C(DUP), MW-16A, MW-16B, MW-19A, and MW-9B.
- Gasoline constituents (benzene, toluene, ethylbenzene and/or xylenes) were detected in groundwater samples collected from monitoring wells MW-13A, MW-19A, and MW-23B. Benzene exceeded the Type 1 RRS of 5 µg/L in monitoring well MW-19A (450 µg/L) and MW-23B (6.7 µg/L).

3.4 Stream Sampling

Three surface water samples were collected from the unnamed creek on July 16, 2015 (SS-1, SS-2, and OF-2) and analyzed for VOCs using USEPA Method 8260B. Surface water sample SS-1 was collected at the surveyed stream gauge location (SG-1). Surface water sample SS-2 was collected approximately 50 feet downstream of SS-1. The location of SS-2 was surveyed on July 17, 2015. A surface water sample (OF-2) was collected immediately downstream of the stormwater culvert (outfall) entering the stream from the Flint River Shopping Center south of the stream. A surface water sample was proposed from the stormwater outfall entering the stream from north and upgradient of OF-2. Based on the overgrowth and the terrain, the location of the culvert was not identified; therefore, no sample was collected. The location of SS-1, SS-2, and OF-2 are depicted on **Figure 16**.

3.4.1 Sample Collection

Surface water sample were collected using a pre-cleaned poly cup. Each groundwater sample was placed directly into the sample glassware. Groundwater samples were sent to TestAmerica in Savannah, Georgia and analyzed for VOCs using USEPA SW846 method 8260B.

3.4.2 Analytical Results

PCE and its degradation products were detected in surface water sample OF-1 and SS-1 and is characteristic of degradation compounds observed in monitoring wells MW-13A/B/C, MW-5/B/C, MW-16A/B/C, MW-19A/B/C/D, and MW-20C (i.e., secondary source plume). PCE was detected in SS-2 at 17 µg/L and is indicative of reducing concentrations downstream of SS-1 and OF-1. PCE exceeded the Georgia In Stream Water Quality Standards (ISWQSs) of 3.3 µg/L published in May 2015. Analytical results are presented on **Table 6**.

3.5 Data Evaluation

Groundwater analytical results between 2006 to 2015 are presented on **Figure 16**. This figure represents annual comprehensive sampling events and does not depict performance sampling completed as part of the ISCO and ISS on-site remediation conducted in 2009 and 2013. Data represented on this Figure demonstrates the following:

- Delineation of groundwater impacts is complete to the east of Fayetteville Road (MW-22A/B and MW-23A/B) and south of the study area (MW-6A/B, MW-19A, and MW-21 B/C).
- Parent product concentrations are stable to declining at the Site with limited degradation.
- Active reductive dechlorination of PCE is observed at locations with the presence of alternate carbon sources off-site such as benzene (MW-13, MW-5 and MW-19 clusters).
- Results from MW-9A/B and MW-18A/B demonstrate a discrete separation of groundwater sources between the Site and MW-13 A/B/C (former Prax Air)

Data collected from the key critical data sets used to delineate the nature and extent of groundwater migrating from the Site were used to update the 2011 preliminary Conceptual Site Model (CSM) for groundwater. **Section 4.0** briefly highlights the initial data gaps presented in 2011 and updates the Site characterization to support the initial conceptualization that groundwater within the residuum and bedrock water bearing zones is ultimately discharging to the unnamed creek west of the Site. Based on the newest assumptions presented in **Section 4.0**, draft isoconcentrations maps depicting the nature and extent of impacts associated with the dry cleaner COCs were developed for initial review and discussion with Georgia EPD and will be provided under separate submittal.

4.0 UPDATED PRELIMINARY GROUNDWATER CONCEPTUAL SITE MODEL

This section provides an updated CSM for groundwater migrating from the Site. The preliminary CSM was based on historical data collected at the Site, limited off-Site data, fundamental tenets to groundwater characteristics in shallow aquifers of small drainage basins of the Piedmont aquifer system and basic hydrologic principles (including contributing sources of the Piedmont aquifer system from Miller, 1990; USGS, 2008; LeGrand, 2004 and Toth, 1963). On this basis, the preliminary CSM outlined specific hydrogeologic data gaps that were presented in the Pilot Test Effectiveness Report and Groundwater Corrective Action Investigation Workplan dated July 8, 2011 (EHS Support 2011).

Between 2012 and 2015, fifteen additional monitoring wells were installed to identify the nature and extent of groundwater impacts associated with the former dry cleaner site at the Tara Shopping Center and to fill in the data gaps presented in 2011. This discussion builds upon the Site characteristics that were previously presented with new data acquired from the expansion of the monitoring network. This data analysis is a continuing process and the CSM will evolve.

It is anticipated that the final CSM will be presented in the Groundwater Corrective Action Plan due to the EPD on January 28, 2016. This report clarifies important insights to the groundwater setting interpreted to date. Although preliminary, these updates outline additional information that focus on the extents of the residuum (soil, alluvium, saprolite) water-bearing zones, groundwater flow direction and discharge, delineation of plume extent(s) and groundwater flux in this particular aquifer setting.

4.1 Hydrogeologic Setting

4.1.1 General Conceptualization of Groundwater Characteristics

The Site, located just south of greater Atlanta, is underlain by a surficial aquifer mostly composed of clay and silt-rich saprolitic sediments which are in-situ weathered residuum of the underlying crystalline bedrock. The crystalline bedrock is part of the regional Piedmont aquifer system (Piedmont and Blue Ridge Provinces). The bedrock underneath the Site area is primarily granitic gneiss (Lawton, 1977; URS, 2009).

Generally, in the Piedmont aquifer system, the groundwater flow domain is localized to watershed scales. The characteristics of a groundwater setting within a small drainage basin are as follows:

- The watershed boundary at the ridgeline generally coincides with groundwater flow divides.
- Groundwater within the watershed naturally flows to surface drainage.
- Groundwater in the residuum is locally recharged from precipitation, exhibits inter-granular flow and discharges to nearby perennial streams.
- Groundwater in the bedrock is recharged through leakage from the overlying residuum and discharges to nearby perennial streams. In this regard, groundwater in the bedrock and the residuum share common hydrologic boundaries. Groundwater flows through interconnected fractures and may be more circuitous than those in the residuum.
- The potentiometric surfaces of both the residuum and the bedrock generally mimic a subdued expression of land surface topography (in the absence of major groundwater withdrawals).

4.1.2 Aquifer and Structural Setting

The Site hydrogeologic framework is presented in **Figure 17** which outlines the principle water-bearing zones, lithologies, and nomenclature used in this report. In summary, groundwater is encountered in the saprolite residuum (residuum) and the crystalline bedrock (bedrock) that underlies it.

Residuum

The residuum is composed primarily of clay and silt rich saprolite (deeply weathered granitic bedrock). Sand-sized detritus, although present, is a minor constituent of the residuum as evidenced in almost all the boring logs for this lithologic unit. The thickness of the residuum is governed by the structural characteristics of the underlying bedrock. As discussed earlier, the structural deformation of the bedrock contributed to a setting where the bedrock surface elevations rapidly change within the study area. On this basis, the residuum thicknesses can range from 0 feet to approximately 60 feet (**Figures 12** and **13**).

Previous aquifer testing (slug tests) from 10 monitoring wells yielded an average hydraulic conductivity of approximately 1.26 ft/d for the residuum (URS, 2009). This value is greater than the representative geology encountered for the residuum. Typically, clays and silts exhibit hydraulic conductivities that are at least 2 orders of magnitude lower. In certain settings, slug tests may not adequately stress groundwater conditions in the formation and the resulting analytical solutions can be biased high by the permeable sand packs surrounding the well screen. It is interpreted that the suspected high hydraulic conductivities could be an artifact of this bias. On this basis, the slug test results could represent the higher end of a range of possible hydraulic conductivities for the residuum. It is concluded that a more representative value of in the order of 0.01 ft/d to 0.1 ft/d is applicable for this clay/silt rich lithology.

There is no mappable confining bed that hydraulically separate groundwater between the two strata so in this context, groundwater in both water-bearing units are hydraulically connected and subject to unconfined water-table conditions. To gain additional insights to water quality, groundwater in the residuum is categorized between the upper and lower water-bearing zones. However, the overall hydraulic relationship between these two zones are similar (similar heads and hydraulic trends) and for practical purposes is classified as a single water-table regime sharing common hydraulic boundary conditions.

Bedrock

The Piedmont Province is underlain by a complex sequence of igneous and metamorphic rocks. The heterogeneity of the bedrock makeup arises from regionally older metamorphosed sedimentary sequences and igneous rocks that have been folded and intruded by younger rocks in the geologic past. The bedrock underneath the Site was further subjected to structural deformation (i.e. faulting) and subsequent erosion of the bedrock surfaces and generally is deeply weathered.

The structural surface of the bedrock is presented in **Figure 10.** As shown in **Figure 10,** the bedrock topography is characterized by rapidly changing bedrock elevations that are indicative of localized faulting. Generally, the structural top of the bedrock ranges from a high of 870 feet, above mean sea level (ft. msl) northwest of the Site that trends to a structural low of about 810 ft. msl to the southeast. The bedrock is also significantly incised by the unnamed creek (creek) located about 800 feet west of the Site.

This bedrock region near the headwater to the creek is of significant interest to this study for two primary reasons:

First, the creek is incised at least 25 feet into the bedrock ravine and therefore, provides a direct conduit to bedrock groundwater exiting the aquifer - a discharge boundary. In 2013, a stream gauge (SG-1, included on **Figure 8**) was installed within the creek to evaluate ground surface and surface water. The ravine ranges between 33 feet and 25 feet in depth at SG-1 between bedrock monitoring wells MW-20C and MW-24C, respectively.

The ground surface elevation in the creek is approximately 851 ft. msl. Surface water at the creek is generally less than one foot in depth and measures at approximately 851.9 ft. msl. Groundwater elevations in the vicinity of the creek are presented below:

Well ID	Location (relative to Creek Gauge)	Water Bearing Zone	Ground Surface Elevation ft-MSL	Groundwater Elevation ft-MSL (June 2015)
MW-20C	Immediately South	Bedrock	875.75	858.90
MW-24C	Immediately North	Bedrock	884.57	849.28
MW-15A	750' East	Upper Residuum	888.30	868.76
MW-15B	750' East	Lower Residuum	888.30	868.89
MW-15C	700' East-northeast	Bedrock	890.73	862.29
Creek	Bottom of ravine	Surface Water	851*	851.9**

ft-MSL – Feet above mean sea level
*Ground surface elevation in the creek based on assume creek depth of one foot. Creek is generally less than one foot in depth based on observations from multiple sampling events.
**Top of staff gauge is 854.74. Depth to water measured on 8/21/13 at 2.85 and 11/20/14 at 2.83. Depth to water inadvertently not recorded in July 2015.

With the exception of MW-24C, groundwater elevations are above the creek elevation supporting the creek is receiving groundwater. (It is believed that groundwater at MW-24C is discharging to the creek down-gradient from gauge SG-1.) The relationship indicates that the creek does intercept the water table in the bedrock relatively close to its headwater and acts as a hydraulic sink to bedrock groundwater.

Secondly, the top of bedrock lies very close to land surface which significantly thins the residuum such that the residuum no longer supports a water-bearing zone. This structural phenomenon can be visualized by the hydrogeologic cross-sections C-C' (**Figure 12**) and D-D' (**Figures 13**). The location map of transects C-C' and D-D' is presented in **Figure 11**.

Cross-section C-C' displays the west to east subsurface setting south of the creek and the Site. It intercepts gauge SG-1 at the creek (west) and terminates at well MW-22A/B (east). As shown, the bedrock elevations generally increase towards the west approaching the creek. Furthermore, approaching well MW-20C, the residuum thins significantly as the bedrock structure sharply rises towards land surface. Based on the water table interpolation between well MW-20C and the up-gradient MW-16A/B/C, three important observations are noted:

1. The residuum effectively terminates in this local region as a water-bearing zone since it does not exist and cannot maintain continuity of flow;
2. Groundwater in the residuum (including impacted groundwater) laterally transits into the bedrock aquifer setting; and
3. Since the creek is the lowest hydraulic point in the aquifer setting, it is a common discharge boundary to groundwater in both the bedrock and up-gradient groundwater migrating from the residuum.

Similar characteristics can be observed and shared in cross-section D-D' which represents the subsurface setting immediately north of the creek and the Site to the east.

Previous geophysical investigations of the bedrock characteristics including acoustic televiewer logging and heat pulse flow testing indicated that groundwater flow is primarily through a fractured setting in the bedrock which is more developed in the shallower depths. Limited flow testing yielded a qualitative characteristic that inferred hydraulic conductivities that are much less than the overlying residuum (URS, 2009).

4.2 Groundwater Flow Domain

The Site is situated within the watershed to the headwaters of the Flint River. The watershed boundaries which follow topographic ridgelines coincide with a natural groundwater divide that define the flow regime. Therefore, groundwater is contained within each watershed and discharges to surface drainage that intercept the water table. Additionally, groundwater cannot cross watershed boundaries.

On this basis, the hydraulic up-gradient regions at the Site are to the east and the south-southeast where the watershed boundary generally delineates the groundwater divides between the current watershed and the Upper Little Cotton Indian Creek watershed (east) and the Murphy Creek-Flint River watershed (south-southeast). This concept is field supported based on analytical results from monitoring wells (MW-22 A/B and MW-23A/B) east and southeast of the Site which are not impacted by former dry cleaning operations.

In the Site region, all possible and potential down-gradient discharge boundaries for groundwater are the surface drainage features including the creek located immediately west of Tara Boulevard and the Site; the unnamed tributary; the headwater to Cleburnes Creek and the Flint River.

Of these, the creek is the discharge boundary to immediate offsite groundwater mostly because of its proximity – it is at a 3rd order stream (Strahler stream order) closest to the Site, it is deeply incised into the bedrock as discussed earlier (the lowest water-bearing zone in the aquifer system), and it intercepts the water-table.

4.2.1 Residuum Water-bearing Zone

Groundwater flow potentiometric surface contours for the residuum water-bearing zone are presented in **Figures 14** (Upper Residuum) and **15** (Lower Residuum). The groundwater head contours indicate that groundwater is flowing west from the Site and migrating towards the creek. Additionally, the dashed symbol included on **Figures 14** and **15** near the creek approximates the lateral terminus of the residuum that can support groundwater flow based on earlier evaluation of the bedrock structural surface. Based on this feature, groundwater head contours are terminated just up-gradient from this physical boundary. It is inferred that residuum groundwater transits into the bedrock aquifer setting west of this physical boundary to maintain continuity of lateral flow.

The overall groundwater heads and their spatial characterization between the upper and the lower zones of the residuum are very similar. This similarity is primarily supporting continuity of groundwater flow vertically through the residuum and that groundwater in both zones is governed by a common boundary condition (creek).

The primary difference is the relationship between the water levels in the vertical fluid column that generally indicate a recharge, flow through or a discharge setting. For instance, wells MW-23A/B are located further east of the Site and closer to the watershed boundary where recharge conditions are optimal in most small watershed settings. Based on the June 2015 survey, the head difference between MW-23A (875.86 ft. msl) and MW-23B (875.08 ft. msl) is 0.78 ft indicating that there is a moderate downward flow at this point because the head pressure in the upper residuum is greater than the lower residuum.

Trending west closer to the discharge boundary, this hydraulic relationship is reversed. Wells MW-15A/B and MW-16A/B are located just up-gradient from the headwater of the creek to the west. Based on the June 2015 survey, the groundwater elevations at MW-15A was 868.76 ft. msl and at MW-15B, 868.89 ft. msl. The head difference between these two wells was -0.13 ft which indicates that there is an upward flow from the lower residuum (higher head) to the upper residuum (lower head). This phenomenon is typical of groundwater in close proximity to a discharging boundary condition. A similar hydraulic event is also observed at well MW-16A/B where the net head difference was -0.52 ft (MW-16A, 868.24 ft. msl; MW-16B, 868.76 ft. msl).

4.2.2 Bedrock Water-bearing Zone

Groundwater flow potentiometric surface contours for the bedrock water-bearing zone is presented in **Figure 16**. The overall groundwater head characteristics represent the following insights:

- Groundwater contours in the up-gradient region (near the Site and Prax Air) infer a radial flow feature. On this basis, from the Site area, there is a north-northwest flow vector and a west flow towards the creek. However, based on the inferred groundwater head contours that curve towards the creek, it is interpreted that groundwater migrating north-northwest will eventually discharge into the creek. Note that this is a preliminary conclusions and the phenomenon will be evaluated further with historical survey results.
- The groundwater contours strongly support a creek discharge. This is principally supported by surrounding water elevations in the headwater region of the creek and the incised nature of the creek deep into the bedrock itself.

4.3 Groundwater Plume Characteristics and Extents

The development of the CSM related to solute transport characteristics detailing migration pathways, plume(s) evolution, and distribution is in progress. It is anticipated that the next deliverable of the CSM will address these areas and include visual representations of the plume distributions in the aquifer setting.

The purpose of this section is to highlight some of the outstanding characteristics that will form the basis for future data interpretation. This section includes:

- Preliminary insights to the status of plume stability – whether the plume(s) is representative of near steady-state conditions;
- Preliminary insights to approximate the maximum plume extents based on the plume stability conclusions and rationale supporting their interpretations; and
- A general insight to groundwater flux - that supports mass flux evaluations and subsequent risk analysis.

4.3.1 VOC Trends and Plume Stability

The VOC trends of selective wells are presented in **Figures 3** to **7**. The constituents included are PCE and its degradation products – TCE, cis-1,2DCE and vinyl chloride for well nests MW-3; MW-8; MW-10 and MW-11. These wells generally monitor groundwater quality immediately down-gradient and near the former dry cleaner site suspected as one of the sources for groundwater impacts in the area.

Since PCE is the parent compound for water quality impacts, its trend characteristics provide basic insights to plume stability including its spatial extents; especially in the down-gradient regions where the plume(s) typically contribute to a larger area in the residuum due to dispersion.

The trends as shown in the figures indicate that either PCE concentrations are slowly decreasing or unchanging over time. The exception is PCE concentration trends included on **Figure 6** at wells MW-10B and MW-10C that exhibit a possible break-through curve sometime in 2010/2011 time periods. A break-through curve generally represents a discrete (as opposed to continuous) recharge event of new water quality impacts to the aquifer system. However, it appears the break-through peaks have passed and the latest concentrations exhibit the tail end of the breakthrough event. Regardless, a number of trends that share either decreasing/unchanging concentrations provides conditions that spatially, the PCE plume(s) may be at or approaching near steady-state conditions within the scale of the study area.

4.3.2 Lateral Plume Extents

Based on a number of wells near source areas that indicate "stabilized" concentration trends, it is possible to infer a near steady-state spatial extent of groundwater impacts for the residuum and the bedrock – that is, to the 5 µg/L RRS for Type 1 groundwater standard. Furthermore, water quality impacts observed in the residuum eventually migrate to the bedrock before discharge. This is possible because groundwater in the residuum and the bedrock share a common hydraulic boundary (i.e. creek). Therefore, the water quality impacts as observed in the residuum will eventually follow the final migration path anticipated for the bedrock water-bearing zone. Since water quality impacts are primarily in solute phase, an adequate understanding of the groundwater flow streamlines can also contribute to delineating the possible later extent of the plume(s).

Table 5 presents the historical VOC sampling results from 2006 to 2015 for the monitoring network. Based on our current knowledge of groundwater flow characteristics in the residuum and the bedrock; and current understanding that the plume appears to have reached a practically stable condition, the following plume extents can be deduced from the discrete water quality sampling results:

<u>Residuum</u>
For practical purposes, the water quality impact extents are described for the residuum that includes both the upper and the lower water-bearing zones. It is planned that the final CSM will include plume isochlors. The following discussion introduces the basis for data interpretation. Based on the June 2015 sampling PCE concentration results, it is anticipated that the extents of the residuum plume can be delineated based on the current data and are as follows:

- Eastern extent: Based on the non-detections observed in well nests at MW-22 and MW-23, the PCE plume extent in this region lies on the western edge of Fayetteville Road.
- Northern extent: Based on very low detections of PCE, the following line of wells will generally determine the extent of PCE, from west to east: MW-14A (7.7 µg/L); MW-7B (5.4 µg/L); creek. Following solute transport conventions, the 5 µg/L extent will follow the groundwater flow paths that migrate to the creek from the area monitored by well MW-7B.
- Western extent: Terminus of the residuum near the headwaters of the creek.
- Southern extent: The plume appears to be contained north of these line of wells where PCE was not detected – MW-21B; MW-6A/B.

<u>Bedrock</u>
The following outlines the well data that will be used to highlight the maximum extent of the bedrock plume for PCE. It is planned that the final CSM will include plume isochlors. Based on the June 2015 sampling PCE results, it is anticipated that the extents of the bedrock plume can be delineated based on the current data and are as follows:

- Western extent: The region near MW-13C (8 µg/L).

- Northern extent: The region near well MW-15C (10 µg/L) and north of well MW-24C (41 µg/L). The boundary near well MW-24C will follow groundwater flow stream lines with compensation for dispersion.
- Eastern extent: The eastern extent is the creek where limited surface water sampling corroborated impacts from groundwater contribution.
- Southern extent: The southern extent of the PCE plume likely follows groundwater flow streamlines from the creek; the area between well MW-21C (<1 µg/L) and MW-19C (200 µg/L); and terminates near MW-5C (8 µg/L).

4.3.3 Vertical Plume Extent

Based on the geophysical evidence from the 2009 investigation at the Site, the transmissive region of the bedrock is mostly concentrated in the upper regions as fracture development decreases with depth. This setting is also supported by the vertical distribution of concentrations between the residuum and bedrock and the bedrock itself.

Based on the lateral spread of the bedrock plume, the PCE impacts are mostly encountered just down-gradient (west) of the Prax Air facility bounded by wells MW-5C; MW-15C; MW-24C; creek; MW-21C; and MW-19C/D. Within this area, it appears the primary axis of the plume is near wells exhibiting relatively high PCE concentrations: MW-16C (820 µg/L) and MW-19C (200 µg/L).

The mid-screen elevations to wells MW-16C (805 ft. msl) and MW-19C (800 ft. msl) are compatible, and both wells are generally situated near the central axis of the plume. Well MW-19D, located next to MW-19C had a PCE detection of 12 µg/L and is installed approximately 20 feet deeper. Based on well MW-19C/D concentrations, the vertical attenuation ratio is 16.6 within a depth of 20 feet between the sampling points [200 (µg/L) / 12 (µg/L)]. By applying this ratio to the PCE concentration observed at MW-16C, it is anticipated that the PCE concentration 20 feet lower, at 780 ft. msl is about 50 µg/L (820 µg/L / 16.6). At, 760 ft. msl the projected concentration is about 3 µg/L (50 µg/L / 16.6). Although a simple exercise, the field data suggests that due to anisotropy, plume migration dynamics favors lateral movement and vertical concentrations can be attenuated rapidly. On this basis, the possible depth of vertical impact near the axis of the plume in the bedrock could descend approxsimately to 760 ft. msl which is equivalent to about 100 feet of saturated thickness from the water table.

4.4 Groundwater Flux and Creek Discharge Estimate

The groundwater flux estimate is an exercise to determine the amount of water that passes between the source and the sink. Basically, it is an evaluation to determine mass fluxes of contaminants in groundwater. In this case, an approximate groundwater flux was evaluated to determine how much baseflow is contributing to the creek near the headwater region.

In this exercise, a representative cross-sectional area was selected for the area between well nests MW-15; MW-16 and MW-19. This area was selected because the primary bedrock plume is passing through these wells and the groundwater passage is directly up-gradient from the creek. The length of this area is approximately 750 ft. The vertical thickness is estimated to be 100 feet. This thickness is based on the previous saturated thickness estimate from the vertical extent of PCE impacts at well MW-16C. This thickness represents both the impacted region of the bedrock and the residuum and likely transmissive region of the aquifer setting. If one assumes an average hydraulic of 1 ft/d (see **Section 5.1**) to represent the composite residuum/bedrock, then the transmissivity of the aquifer is 100 ft^2/d. A more representative hydraulic conductivity of 0.01 ft/d will yield a transmissivity of 1 ft^2/d as well.

Using the Darcy equation, the fluid flux is estimated as follows:

Flux = KIA where:

K = hydraulic conductivity (1 ft/d; 0.01 ft/d)

I = Hydraulic gradient (0.02)

A = Cross-sectional area (750 ft x 100 ft)

Based on this equation, the estimated water flux ranges from 0.017 ft^3/s to 0.00017 ft^3/s. These fluxes are extremely small and are representative of the eventual range of baseflows that will discharge to the creek. Limited discharge measurements at the headwater segment of the creek in March 2011 yielded flows between 0.28 ft^3/s and 0.46 ft^3/s.

The important observation is that the residuum/bedrock water bearing zone in this area is not prolific; it produces a minor amount of water and as previously described, the baseflow contribution to the creek is very low. It is deduced that the higher discharge measurements made at the creek was mostly contributed by storm water that flows into it. In one perspective, these low baseflows may not yield enough water to produce a flowing stream at the creek. During dry conditions, the discharge at the creek will be likely emanate as a wetted seepage face where groundwater evaporates before enough water accumulates to initiate flow. The scenario is similar to groundwater seepage along road cuts in tight formations where transmissivity is very low.

4.5 Summary and Conclusions

A preliminary CSM outlined specific hydrogeologic data gaps that were presented in the Pilot Test Effectiveness Report and Groundwater Corrective Action Investigation Workplan dated July 8, 2011 (EHS Support 2011). Based on the recommendations, additional sampling and lithologic data were collected with the installation of fifteen additional monitoring wells that expanded the previous network. The following conclusions are made:

- The physical setting of the aquifer system is governed by the geologic makeup of the Piedmont Province and the structural setting that evolved from its tectonic history. The principal hydrostratigraphy is comprised of a structurally deformed granitic gneiss and a deeply weathered residuum that is clay and silt rich saprolite. Sand-sized detritus is minimally encountered in the residuum indicating a very low permeability aquifer setting in the unconsolidated material. Additionally, geophysical investigations point to a crystalline bedrock setting where fracture development is primarily in the upper region of the bedrock with less development with depth. The hydraulic conductivity of the bedrock is even lower than the anticipated hydraulic conductivities of the residuum. Based on aquifer tests, it is also anticipated that the hydraulic conductivities of the aquifer system is generally 1 ft/d or less.
- The bedrock structure is characterized by deformation process such as faulting. This tectonic history contributes to a highly variable bedrock surface. One primary area is in the region approaching a surface drainage that is a hydraulic boundary to the aquifer setting. In this region, the top of bedrock is close to land surface. The result is the thinning and eventual termination of the residuum stratum. In this setting, groundwater in the residuum transits laterally into the bedrock prior to surface discharge.
- Groundwater characteristics in the study area are typical of flow domain that is generally expected in a small drainage watershed in the Piedmont Province. The Site and study area is generally situated in the headwater region of the Flint River watershed. The watershed boundary is situated close by and east of the Site. As anticipated, groundwater elevations are higher (up-gradient) closer to the watershed boundary indicating close proximity to recharge conditions. Additionally,

groundwater flows towards surface drainage. At the Site area, the closest surface drainage is an unnamed 3rd Order creek that is incised into the lowest water-bearing unit in the area (bedrock). Head equipotential lines and vertical head gradients support this flow phenomenon as well.

- Groundwater is observed in both the residuum and the bedrock. There is no mappable confining unit between the residuum and the bedrock. Groundwater freely migrates between the two zones and are subject to water-table conditions. The additional monitoring wells near the creek and the surface water gage data indicate that groundwater in both strata are flowing towards the creek. Groundwater in the residuum transits into the bedrock prior to surface discharge. This means that groundwater in both the residuum and the bedrock share a common hydraulic boundary; hence, the similar flow characteristics between the two water-bearing zones.
- Water quality trends in select wells near historical source areas indicate that VOC concentrations are for the most part, decreasing or unchanging over time (approximately 9 years of monitoring record). These trend features infer that the plume itself is practically unchanging and appear to be in a near steady-state status. Since the trends are not increasing, it is anticipated that plume extents (at least to the 5 µg/L RRS Type 1 standard) are not expanding but are also relatively stationary and expected to shrink over time.
- Based on the expanded network, the approximate lateral extents of the plume can be delineated. The delineation is based primarily on water sampling results but contributed by anticipated plume migration from head equipotential lines and dispersion. The vertical extent of the plume can be deduced from the deeper bedrock monitoring well data that are located near the central axis of the PCE migration in the bedrock. The approximate vertical extent of the plume is based on the vertical attenuation of PCE on wells installed at discrete depths in the bedrock. Based on this exercise, it appears that the vertical maximum extent of the bedrock impact is approximately 100 feet – inclusive of the residuum.
- Based on the plume characteristics in the bedrock and the estimated saturated thickness, a representative cross-section was selected to determine a range of groundwater flux that will eventually discharge into the creek. Preliminary estimates indicate that the groundwater fluxes in the aquifer setting is very small (due to a very low aquifer transmissivity) and baseflows into the creek is likely many orders of magnitude lower than measured flows. It is likely that the additional flow is from storm water that discharges into the creek.
- The low calculated baseflows also infer the real possibility that during dry seasons, aquifer discharge could emanate as a wetted seepage face at the creek rather than a flowing stream. This deduction is primarily based on the extremely low groundwater flux that is available as baseflow to the creek.
- The data collected and interpreted to date indicate that the original objectives to clarify the source/sink relationship of the groundwater setting (especially in the offsite region); to delineate extents of groundwater impacts; and to identify the current status of the plume in terms of plume dynamics can be met. On this basis, it is also concluded that no new data points are needed in this phase of the investigation.

5.0 REMEDIAL ALTERNATIVES

5.1 Groundwater

Ashland is evaluating monitored natural attenuation (MNA) as the remedial alternative for addressing chlorinated ethenes in groundwater. In order for MNA to be considered as a viable remedy, this option will have to meet site specific remediation objectives within a timeframe that is reasonable in comparison to other options. In July 2015, MNA sampling was conducted in general accordance to EPA's MNA guidance[3]. The groundwater sampling program is provided on **Table 3.** The tasks completed during this MNA sampling event were as follows:

- Collect samples from all of the new and existing wells in the network to provide a complete final "snapshot" of VOC concentrations and volumetric extent.
- Collect samples from select wells for the following parameters to identify lines of evidence for abiotic degradation of chlorinated ethenes:
    - dissolved gases (ethene, ethane, methane, and acetylene)
    - terminal electron acceptors (dissolved oxygen, nitrate, ferric iron, and sulfate)
    - terminal electron accepting products (nitrate, ferrous iron, sulfide, and methane)
    - volatile fatty acids (acetate, pyruvate, lactate, and propionate)
    - total organic carbon

A more comprehensive evaluation of the data will be performed and submitted to the EPD to describe the potential MNA mechanisms and their effects on the behavior, fate, and down-gradient migration of chlorinated ethenes. If abiotic degradation appears to be the principle mechanism for degrading chlorinated ethenes, additional sampling using advanced molecular biological tools may be warranted to definitively identify the specific processes responsible for ethane degradation. A summary of findings will be provided under separate cover.

5.2 Qualifying Property Status

Streamlined Uniform Environmental Covenants are currently being considered for properties identified downgradient of the Site with known groundwater impacts from former dry cleaning Site. Pursuant to the Uniform Environmental Covenants Act, groundwater use restrictions will be required.

[3] USEPA. 1999. Use of Monitored Natural Attenuation at Superfund, RCRA, Corrective Action, and Underground Storage Tank Sites. Directive No. 9200.4-17P. April 21.

6.0 VAPOR INTRUSION EVALUATION

Groundwater data from the most recent sampling event completed in July 2015 will be used to evaluate the potential for complete exposure pathways through vapor intrusion using the USEPA Vapor Intrusion Screening Level Calculator updated June 2015) and Office of Solid Waste Emergency Response (OSWER) Draft Guidance for Evaluating Vapor Intrusions to Indoor Air Pathway from Groundwater and Soils dated November 2002. The data quality objectives are currently being developed and will used to complete the initial vapor intrusion screening assessment.

7.0 SCHEDULE

This section outlines the upcoming schedule of activities proposed under the VRP for the Site.

- The next semi-annual progress report is due December 28, 2015.
- The next post soil remediation semi-annual performance-monitoring event is schedules no later than January 31, 2016.
- A groundwater corrective action work plan is due January 28, 2016.
- A compliance status report is due June 28, 2017.

Document	Original Date	Approved Date
Semi-Annual Progress Report	June 28, 2015	August 28, 2015
Groundwater Corrective Action Work Plan	June 28, 2015	January 28, 2015
Semi-Annual Progress Report	December 28, 2015	No change
Semi-Annual Progress Report	June 28, 2016	No change
Semi-Annual Progress Report	December 28, 2016	No change
Compliance Status Report	June 28, 2017	No change

8.0 REFERENCES

EHS Support Inc. 2011. Pilot Test Effectiveness Report and Groundwater Corrective Action Investigation Workplan , Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia. July 8, 2011.

EHS Support LLC. 2014a. Soil Remediation Completion Report, Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia. March 14, 2014.

EHS Support LLC. 2014b. Semi Annual VRP Progress Report 5. December 24, 2014.

Georgia Department of Natural Resources. 2012a. Response and Remediation Program, Voluntary Investigation and Remediation Plan and Application approval letter. June 28, 2012.

Georgia Department of Natural Resources. 2012b. Response and Remediation Program, Voluntary Investigation and Remediation Plan and Application comment letter. February 7, 2012.

Georgia Department of Natural Resources, Environmental Protections Division-Land Protection Branch. 2014. VRP Semi-Annual Progress Report #5 and Soil Remediation Completion Report comment letter. September 5, 2014.

Georgia Department of Natural Resources, Environmental Protections Division-Land Protection Branch. 2015. VRP Semi-Annual Progress Report #5 comment letter. February 20, 2015.

Heath, R.C., 1983, Basic Ground-water Hydrology: U.S. Geological Survey Water-Supply Paper 2220.

Miller, J.A.,1990, Ground Water Atlas of the United States – Piedmont and Blue Ridge aquifers: U.S. Geological Survey HA 730-G; and

Lawton, D.E., 1977, Geologic Map of Georgia (SM-5): Georgia Department of Natural Resources

Legrand, H.E., 2004, A Master Conceptual Model for Hydrogeological Site Characterization in the Piedmont and Mountain region of North Carolina, A guidance manual: North Carolina Department of Environment and Natural Resources.

Toth, J., 1963, A Theoretical Analysis of Groundwater Flow in a Small Drainage Basin, Journal o Geophysical Resources, vol. 68(16), pp. 4795-4812.

URS, 2009, Groundwater Corrective Action Plan for Ashland, Inc. Tara Shopping Center, Jonesboro, Georgia, GA EPD HSI Site No. 10798: Prepared for Ashland Inc. by URS Corporation, March 20, 2009.

USGS, 2008, Georgia's Ground-water Resources and Monitoring Network, 2009: U. S. Geological Survey Fact Sheet 2008-3072.

TABLES

Table 1 - Summary of VOC Performance Monitoring Analytical Results
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-3A			MW-3B		
Lab Sample Number		680-103647-1	680-109331-12	680-114236-10	680-109331-3	680-103647-2	680-114236-15
Sampling Date		7/22/2014	1/22/2015	7/2/2015	1/21/2015	7/22/2014	7/1/2015
Matrix		Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low
Constituents of Concern							
Tetrachloroethene	5	**60**	**75**	**11**	1 U	1 U	1 U
Trichloroethene	5	**1.1**	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds							
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	25 U	10 U	10 U	10 U	25 U	10 U
Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	2 U	1 U	1 U	1 U	2 U	1 U
Total VOCS		61.1	75	11	1	1	1

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8B, MW-11A, and MW-11B due to color and is indicative of 2009 permanganate injections.

U - value not detected above the laboratory reporting limit.
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater.

Table 1 - Summary of VOC Performance Monitoring Analytical Results
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-8A			MW-8B			MW-8C		
Lab Sample Number		**680-103647-3**	**680-109331-13**	**680-114574-2**	**680-103647-4**	**680-109331-8**	**680-114574-7**	**680-103647-5**	**680-109331-9**	**680-114236-3**
Sampling Date		7/23/2014	1/22/2015	7/14/2015	7/23/2014	1/21/2015	7/14/2015	7/23/2014	1/21/2015	7/2/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		10	10	1	2	5	2	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern										
Tetrachloroethene	5	**550**	**570**	**96**	**190**	**310**	**7.7**	1 U	1 U	1 U
Trichloroethene	5	**32**	**46**	1 U	2 U	5 U	2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	12	**22**	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Vinyl chloride	2	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Other VOC Compounds										
1,1,1-Trichloroethane	200	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,1-Dichloroethane	400	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,1-Dichloroethene	7	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,2-Dichloroethane	5	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
1,2-Dichloropropane	5	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
2-Butanone (MEK)	200	100 U	100 U	10 U	20 U	50 U	20 U	**18**	**34**	**96**
2-Hexanone	NP	100 U	100 U	10 U	20 U	50 U	20 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	100 U	100 U	10 U	20 U	50 U	20 U	10 U	10 U	10 U
Acetone	400	250 U	100 U	10 U	50 U	50 U	**38**	25 U	**26**	**77**
Benzene	5	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Bromoform	80	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Bromomethane	NP	50 U	50 U	5 U	10 U	25 U	10 U	5 U	5 U	5 U
Carbon disulfide	400	20 U	20 U	2 U	4 U	10 U	4 U	**2.3**	2 U	2 U
Carbon tetrachloride	5	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Chlorobenzene	100	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Chlorodibromomethane	80	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Chloroethane	NP	50 U	50 U	5 U	10 U	25 U	10 U	5 U	5 U	5 U
Chloroform	80	10 U	10 U	**4.4**	2 U	5 U	2 U	1 U	1 U	1 U
Chloromethane	NP	10 U	10 U	1 U	2 U	5 U	2 U	**1.3**	**1.3**	1 U
cis-1,3-Dichloropropene	NP	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Dichlorobromomethane	80	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Ethylbenzene	700	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Methylene Chloride	3	50 U	50 U	5 U	10 U	25 U	10 U	5 U	5 U	5 U
Styrene	100	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Toluene	1000	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	10 U	10 U	1 U	2 U	5 U	2 U	1 U	1 U	1 U
Xylenes, Total	10000	20 U	10 U	1 U	4 U	5 U	2 U	2 U	1 U	1 U
Total VOCS		594	638	100.4	190	310	45.7	21.6	61.3	173

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8B, MW-11A, and MW-11B due to color and is indicative of 2009 permanganate injections.

U - value not detected above the laboratory reporting limit.
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater.

Table 1 - Summary of VOC Performance Monitoring Analytical Results
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-9A			MW-9B			MW-9C		
Lab Sample Number		**680-103647-6**	**680-109331-14**	**680-114574-8**	**680-103647-7**	**680-109331-4**	**680-114236-20**	**680-103647-8**	**680-109331-5**	**680-114236-19**
Sampling Date		7/23/2014	1/22/2015	7/14/2015	7/23/2014	1/21/2015	7/2/2015	7/23/2014	1/21/2015	7/1/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		5	5	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern										
Tetrachloroethene	5	**370**	**560**	**310 D**	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	**230**	**86**	**180**	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	**8.5**	**6.6**	**7.9**	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds										
1,1,1-Trichloroethane	200	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	130 U	**91**	**12**	25 U	10 U	10 U	**110**	10 U	10 U
Benzene	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	10 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	**7.3**	**5.1**	**7.3**	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	10 U	5 U	1 U	2 U	1 U	1 U	2 U	1 U	1 U
Total VOCS		615.8	748.7	207.2	1	1	1	110	1	1

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8B, MW-11A, and MW-11B due to color and is indicative of 2009 permanganate injections.

U - value not detected above the laboratory reporting limit.
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater.

Table 1 - Summary of VOC Performance Monitoring Analytical Results
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-10A			MW-10B				MW-10C		
Lab Sample Number		**680-103647-9**	**680-109331-15**	**680-114574-4**	**680-103647-10**	**680-109331-10**	**680-109331-2**	**680-114236-9**	**680-103647-11**	**680-109331-11**	**680-114236-8**
Sampling Date		7/23/2014	1/22/2015	7/14/2015	7/23/2014	1/22/2015	1/22/2015	7/2/2015	7/23/2014	1/22/2015	7/2/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		5	5	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern							**DUP-1**				
Tetrachloroethene	5	**480**	**660**	**220 D**	**76**	1 U	1 U	1 U	**3.2**	**7.6**	**3.4**
Trichloroethene	5	**82**	**130**	**37**	**1.8**	1 U	1 U	1 U	1 U	1.0	1 U
cis-1,2-Dichloroethene	70	**41**	**73**	**21**	**1.7**	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	130 U	50 U	10 U	25 U	10 U	10 U	**16**	25 U	10 U	**12**
Benzene	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	10 U	10 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	**14**	**14**	**4.9**	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	25 U	25 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	5 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	10 U	5 U	1 U	2 U	1 U	1 U	1 U	2 U	1 U	1 U
Total VOCS		617	877	62.9	79.5	1	1	16	3.2	8.6	15.4

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8B, MW-11A, and MW-11B due to color and is indicative of 2009 permanganate injections.

U - value not detected above the laboratory reporting limit.
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater.

Table 1 - Summary of VOC Performance Monitoring Analytical Results
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-11A			MW-11B			MW-11C		
Lab Sample Number		**680-103647-12**	**680-109331-16**	**680-114593-1**	**680-103647-13**	**680-109331-6**	**680-114236-1**	**680-103647-14**	**680-109331-7**	**680-114236-2**
Sampling Date		7/22/2014	1/22/2015	7/16/2015	7/22/2014	1/21/2015	7/2/2015	7/22/2014	1/21/2015	7/2/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		5	5	2	1	1	2	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern										
Tetrachloroethene	5	5 U	5 U	**2.7**	**19**	1 U	2 U	1 U	**1.0**	1 U
Trichloroethene	5	5 U	5 U	2 U	**1.8**	1 U	2 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Vinyl chloride	2	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Other VOC Compounds										
1,1,1-Trichloroethane	200	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethane	400	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,1-Dichloroethene	7	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloroethane	5	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
1,2-Dichloropropane	5	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
2-Butanone (MEK)	200	50 U	50 U	20 U	10 U	10 U	20 U	10 U	10 U	10 U
2-Hexanone	NP	50 U	50 U	20 U	10 U	10 U	20 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	20 U	10 U	10 U	20 U	10 U	10 U	10 U
Acetone	400	130 U	50 U	20 U	25 U	10 U	**28**	25 U	10 U	10 U
Benzene	5	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Bromoform	80	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Bromomethane	NP	25 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	5 U
Carbon disulfide	400	10 U	10 U	4 U	2 U	2 U	4 U	2 U	2 U	2 U
Carbon tetrachloride	5	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Chlorobenzene	100	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Chlorodibromomethane	80	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloroethane	NP	25 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	5 U
Chloroform	80	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Chloromethane	NP	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Dichlorobromomethane	80	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Ethylbenzene	700	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Methylene Chloride	3	25 U	25 U	10 U	5 U	5 U	10 U	5 U	5 U	5 U
Styrene	100	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Toluene	1000	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	5 U	5 U	2 U	1 U	1 U	2 U	1 U	1 U	1 U
Xylenes, Total	10000	10 U	5 U	2 U	2 U	1 U	2 U	2 U	1 U	1 U
Total VOCS		1	1	2.7	20.8	1	28	1	1	1

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8B, MW-11A, and MW-11B due to color and is indicative of 2009 permanganate injections.

U - value not detected above the laboratory reporting limit.
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater.

Table 2 - Monitoring Well Construction Details
Tara Shopping Center, 8564 Tara Blvd, Jonesboro, GA

Well Identification	Location	Water Bearing Unit	LONGITUDE	LATITUDE	Date Installed	Well Casing Diameter (in.)	Construction Material	Well Completion	Screen Interval (ft. bgs)	Screen Length (ft)	6-inch dia. Outer Steel Casing Depth (ft)	Total Depth of Boring (ft. bgs)	Date of Last Survey	Top of Casing Elevation (ft. above MSL)	Ground Surface Elevation (ft. above MSL)	Depth to Top of Bedrock Elevation (ft. above MSL)
MW-1A	TSC	Shallow	W084°21'43.441"	N033°31'14.642"	04/25/06	2-IN.	PVC	FM	15.0 - 25.0	10	n/a	25	7/24/2013	898.82	899.14	-
MW-1C	TSC	Bedrock	W084°21'43.438"	N033°31'14.688"	04/09/08	2-IN.	PVC	FM	83.0 - 98.0	15	69	99	7/24/2013	899.01	899.24	835.24
MW-3A	TSC	Shallow	W084°21'44.994"	N033°31'11.148"	05/03/06	2-IN.	PVC	FM	15.0 - 25.0	10	n/a	25	7/24/2013	892.41	892.70	-
MW-3B	TSC	Intermediate	W084°21'45.017"	N033°31'11.164"	05/03/06	2-IN.	PVC	FM	45.0 - 55.0	10	n/a	55	7/24/2013	892.54	892.70	837.70
MW-4A	Prax Air	Shallow	W084°21'45.768"	N033°31'09.223"	04/28/06	2-IN.	PVC	FM	15.0 - 25.0	10	n/a	25	7/24/2013	884.63	884.96	-
MW-4B	Prax Air	Intermediate	W084°21'45.792"	N033°31'09.225"	04/28/06	2-IN.	PVC	FM	50.0 - 60.0	10	n/a	60	7/24/2013	884.67	884.95	824.95
MW-5A	Prax Air	Shallow	W084°21-47.732"	N033°31'08.420"	05/01/06	2-IN.	PVC	FM	15.0 - 25.0	10	n/a	25	7/24/2013	883.48	883.72	-
MW-5B	Prax Air	Intermediate	W084°21-47.702"	N033°31'08.420"	05/01/06	2-IN.	PVC	FM	36.0 - 46.0	10	n/a	46	7/24/2013	883.43	883.72	837.72
MW-5C	Prax Air	Bedrock	W084°21-47.688"	N033°31'08.465"	04/10/08	2-IN.	PVC	FM	75.0 - 90.0	15	64	94.5	7/24/2013	883.64	883.88	824.88
MW-6A	Citgo	Shallow	W084°21'47.684"	N033°31'04.745"	05/02/06	2-IN.	PVC	FM	15.0 - 25.0	10	n/a	25	7/24/2013	881.41	881.70	-
MW-6B	Citgo	Intermediate	W084°21'47.679"	N033°31'04.776"	05/02/06	2-IN.	PVC	FM	57.0 - 67.0	10	n/a	67	7/24/2013	881.54	881.80	814.80
MW-7B	TSC	Intermediate	W084°21'47.387"	N033°31'14.510"	07/26/06	2-IN.	PVC	FM	23.0 - 33.0	10	n/a	33	7/24/2013	896.93	897.15	864.15
MW-7C	TSC	Bedrock	W084°21'47.376"	N033°31'14.571"	04/10/08	2-IN.	PVC	FM	52.0 - 62.0	10	38	65.5	7/24/2013	896.96	897.22	864.22
MW-8A	TSC	Shallow	W084°21'47.459"	N033°31'13.035"	07/26/06	2-IN.	PVC	FM	23.0 - 32.0	9	n/a	32.5	7/24/2013	895.14	895.27	-
MW-8B	TSC	Intermediate	W084°21'47.467"	N033°31'12.973"	07/26/06	2-IN.	PVC	FM	47.0 - 57.0	10	n/a	57	7/24/2013	895.02	895.26	838.26
MW-8C	TSC	Bedrock	W084°21'47.393"	N033°31'13.007"	04/10/08	2-IN.	PVC	FM	71.0 - 85.0	14	63	94	7/24/2013	895.04	895.27	837.27
MW-9A	TSC	Shallow	W084°21'46.332"	N033°31'10.621"	07/25/06	2-IN.	PVC	FM	20.0 - 30.0	10	n/a	32.5	7/24/2013	891.65	892.20	-
MW-9B	TSC	Intermediate	W084°21'46.369"	N033°31'10.619"	07/25/06	2-IN.	PVC	FM	52.0 - 62.0	10	n/a	62	7/24/2013	892.08	892.20	830.20
MW-9C	TSC	Bedrock	W084°21'46.255"	N033°31'10.639"	04/10/08	2-IN.	PVC	FM	85.0 - 100.0	15	81	109	7/24/2013	891.92	892.10	816.10
MW-10A	TSC	Shallow	W084°21'45.933"	N033°31'13.219"	02/19/08	2-IN.	PVC	FM	27.0 - 37.0	10	n/a	37	11/12/2014	896.76	897.09	-
MW-10B	TSC	Intermediate	W084°21'45.937"	N033°31'13.168"	02/19/08	2-IN.	PVC	FM	40.0 - 50.0	10	n/a	50	11/12/2014	896.55	896.95	-
MW-10C	TSC	Bedrock	W084°21'46.007"	N033°31'13.197"	04/10/08	2-IN.	PVC	FM	75.0 - 90.0	15	65	96	11/12/2014	896.65	896.99	832.99
MW-11A	L6 Clay	Shallow	W084°21'46.699"	N033°31'12.045"	02/20/08	2-IN.	PVC	FM	20.0 - 30.0	10	n/a	30	11/12/2014	893.90	894.24	-
MW-11B	L6 Clay	Intermediate	W084°21'46.685"	N033°31'12.016"	02/20/08	2-IN.	PVC	FM	46.0 - 56.0	10	n/a	57	11/12/2014	893.79	894.18	837.18
MW-11C	L6 Clay	Bedrock	W084°21'46.697"	N033°31'12.105"	04/10/08	2-IN.	PVC	FM	73.0 - 88.0	15	62	90.5	11/12/2014	894.06	894.41	837.41
MW-12A	TSC	Shallow	W084°21'45.293"	N033°31'10.615"	02/20/08	2-IN.	PVC	FM	20.0 - 30.0	10	n/a	30	7/24/2013	891.28	891.30	-
MW-13A	Prax Air	Shallow	W084°21'46.234"	N033°31'08.243"	03/27/08	2-IN.	PVC	FM	14.0 - 24.0	10	n/a	24	7/24/2013	881.08	881.35	-
MW-13B	Prax Air	Intermediate	W084°21'46.219"	N033°31'08.205"	03/27/08	2-IN.	PVC	FM	62.0 - 72.0	10	n/a	72	7/24/2013	881.09	881.30	809.30
MW-13C	Prax Air	Bedrock	W084°21'46.298"	N033°31'08.172"	10/15/08	2-IN.	PVC	FM	78.0 - 89.0	11	75	105	7/24/2013	881.16	881.36	810.36
MW-14A	TSC	Shallow	W084°21'43.295"	N033°31'15.361"	02/20/08	2-IN.	PVC	FM	25.0 - 35.0	10	n/a	35	7/24/2013	899.70	899.86	-
MW-15A	ROW	Shallow	W084°21-49.670"	N033°31'10.678"	09/18/08	2-IN.	PVC	FM	27.5 - 37.5	10	n/a	37.5	7/24/2013	888.05	888.30	-
MW-15B	ROW	Intermediate	W084°21-49.670"	N033°31'10.650"	09/19/08	2-IN.	PVC	FM	38.5 - 48.5	10	n/a	49	7/24/2013	888.09	888.30	839.30
MW-15C	H&F	Bedrock	W084°21'50.132"	N033°31'12.345"	06/11/15	2-IN.	PVC	FM	59.5 69.5	10	53	71	7/16/15	890.47	890.73	842.73
MW-16A	ROW	Shallow	W084°21-50.051"	N033°31'08.670"	09/18/08	2-IN.	PVC	FM	22.0 - 32.0	10	n/a	32.5	7/24/2013	879.48	879.90	-
MW-16B	ROW	Intermediate	W084°21-50.055"	N033°31'08.648"	09/19/08	2-IN.	PVC	FM	34.0 - 44.0	10	n/a	44	7/24/2013	879.65	879.90	835.90
MW-16C	ROW	Bedrock	W084°21'50.116"	N033°31'08.668"	10/14/08	2-IN.	PVC	FM	58.0 - 68.0	10	44.5	74.5	7/24/2013	878.84	878.97	837.97
MW-17A	L6 Clay	Shallow	W084°21'46.525"	N033°31'12.035"	03/30/11	2-IN.	PVC	FM	20.0 - 30.0	10	na	30	7/16/2015	893.98	894.33	-
MW-18A	Al Karim	Shallow	W084°21'46.492"	N033°31'09.446"	11/27/12	2-IN.	PVC	FM	20.0 - 30.0	10	na	30	7/24/2013	888.29	888.63	-
MW-18B	Al Karim	Intermediate	W084°21'46.582"	N033°31'09.447"	11/27/12	2-IN.	PVC	FM	47.0 - 57.0	10	na	57	7/24/2013	888.23	888.60	-
MW-19A	FRSC	Shallow	W084°21-51.091"	N033°31'07.039"	12/05/12	2-IN.	PVC	FM	25.0 - 35.0	10	na	35	7/24/2013	879.94	880.10	-
MW-19B	FRSC	Intermediate	W084°21'50.971"	N033°31'06.994"	12/05/12	2-IN.	PVC	FM	50.0 - 60.0	10	na	60	7/24/2013	880.17	880.32	814.32
MW-19C	FRSC	Bedrock**	W084°21-51.035"	N033°31'07.019"	12/04/12	2-IN.	PVC	FM	75.0 - 85.0	10	na	85	7/24/2013	880.01	880.21	795.21
MW-19D	FRSC	Bedrock	W084°21'51.058"	N033°31'06.959"	09/02/14	2-IN.	PVC	FM	95.5 - 105.5	10	85	106	11/12/2014	880.08	880.35	814.35
MW-20C	FRSC	Bedrock	W084°21'54.294"	N033°31'09.877"	12/04/12	2-IN.	PVC	FM	35.0 - 45.0	10	n/a	45.5	7/24/2013	875.44	875.75	875.75
MW-21B	FRSC	Intermediate	W084°21'55.671"	N033°31'06.215"	08/29/14	2-IN.	PVC	FM	29.5 - 39.5	10	n/a	40	11/12/2014	871.40	871.74	825.74
MW-21C	FRSC	Bedrock	W084°21'55.674"	N033°31'06.160"	08/29/14	2-IN.	PVC	FM	64.5 - 74.5	10	46.75	75	11/12/2014	871.41	871.76	825.76
MW-22A	ADC	Shallow	W084°21'44.189"	N033°31'06.286"	09/03/14	2-IN.	PVC	FM	20.0 - 30.0	10	n/a	31	11/12/2014	883.00	883.54	-
MW-22B	ADC	Intermediate	W084°21'44.124"	N033°31'06.283"	09/03/14	2-IN.	PVC	FM	67.0 - 77.0	10	n/a	82	11/12/2014	883.29	883.61	806.11
MW-23A	Santos	Shallow	W084°21'43.454"	N033°31'10.767"	06/13/15	2-IN.	PVC	FM	10.0 - 20.0	10	n/a	20	7/16/2015	888.10	888.29	-
MW-23B	Santos	Intermediate	W084°21'43.444"	N033°31'10.841"	06/13/15	2-IN.	PVC	FM	59.5 - 69.5	10	n/a	70	7/16/2015	888.23	888.52	819.52
MW-24C	H&F	Bedrock	W084°21'53.946"	N033°31'12.542"	06/10/15	2-IN.	PVC	FM	33.5 - 43.5	10	n/a	44	7/16/2015	884.57	884.57	849.57
STREAM GAUGE (SG	SG-1		W084°21'54.032"	N033°31'11.186"	7/24/2013	1-IN	STEEL	NA	NA NA	NA	NA	NA	7/24/2013	854.74	*851.39*	NA

Table 2 - Monitoring Well Construction Details
Tara Shopping Center, 8564 Tara Blvd, Jonesboro, GA

Notes:
(in.) or IN = Inch
(ft. bgs) = feet below ground surface
(ft) = feet
(ft-TOC) = feet below top of inner PVC casing
(ft. above MSL) = feet above mean sea level
ft. bgs = feet below ground surface
FM = Flush Mount
n/a = not applicable
NI = Not Installed at time of gauging
NS = Not Survey at time of gauging
NM = Not measured
* MW-17A - Top of inner Casing surveyed 7/16/15
** MW-19C - Identified a bedrock monitoring well during MW-19D well drilling/installation in August 2014.

Location Notes:

TSC	Tara Shopping Center (8564 Tara Shopping Center)
Prax Air	Nexair (formerly Prax Air) 8660 Tara Blvd
Citgo	Gas Station 8664 Tara Blvd
L6 Clay	Former USA Pay Day 8596 Tara Blvd (VACANT)
ROW	County Right of Way
H&F	Former Hoops and Fitness 8557 Tara Blvd
Al Karim	Pawn Shop (Former Dunkin Donuts) 8650 Tara Blvd
FRSC	Flint River Shopping Center 8639 Tara Blvd
ADC	What A Day Adult Day Care 177 College Street
Santos	Private Residence (Vacant) 117 Fayetteville Road

Table 3 - Groundwater Sampling Program (June/July 2015)
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

		Monitored Natural Attenuation (MNA) Parameters												
		General			Tier I (General USEPA OSWER Directive to demostrate degradation pathway)							Tier II		
					Groundwater							Groundwater		
	Well Identification	Gauging	VOCs (8260C)	pH, DO, ORP, Temp., Spec. Conductance, Turbidity (Field)	Dissolved Gases (ethene, ethane, methane, and acetylene)	Nitrate, nitrite, sulfate, chloride	Total and dissolved iron and manganese	Ferrous Iron	Sulfide	Volatile Fatty Acids (Metabolic Acids)	Total Organic Carbon (TOC)	Compound Specific Isotope Analysis (CSIA) - 13/12C	QuantArray-Chlor	CO_2
1	MW-1A	X	X	X	1	-	-	-	-	-	-	-	-	-
2	MW-1C	X	X	X	-	-	-	-	-	-	-	-	-	-
3	MW-3A	X	X	X	1	-	-	-	-	-	-	-	-	-
4	MW-3B	X	X	X	-	-	-	-	-	-	-	-	-	-
5	MW-4A	X	X	X	1	-	-	-	-	-	-	-	-	-
6	MW-4B	X	X	X	-	-	-	-	-	-	-	-	-	-
7	MW-5A	X	X	X	1	-	-	-	-	-	-	-	-	-
8	MW-5B	X	X	X	1	1	1	1	1	1	1	1	1	1
9	MW-5C	X	X	X	1	-	-	-	-	-	-	-	-	-
10	MW-6A	X	X	X	1	-	-	-	-	-	-	-	-	-
11	MW-6B	X	X	X	1	-	-	-	-	-	-	-	-	-
12	MW-7B	X	X	X	1	-	-	-	-	-	-	-	-	-
13	MW-7C	X	X	X	-	-	-	-	-	-	-	-	-	-
14	MW-8A	X	X	X	1	-	-	-	-	-	-	-	-	-
15	MW-8B	X	X	X	1	-	-	-	-	-	-	-	-	-
16	MW-8C	X	X	X	-	-	-	-	-	-	-	-	-	-
17	MW-9A	X	X	X	1	-	-	-	-	-	-	-	-	-
18	MW-9B	X	X	X	-	-	-	-	-	-	-	-	-	-
19	MW-9C	X	X	X	-	-	-	-	-	-	-	-	-	-
20	MW-10A	X	X	X	1	-	-	-	-	-	-	-	-	-
21	MW-10B	X	X	X	1	-	-	-	-	-	-	-	-	-
22	MW-10C	X	X	X	1	-	-	-	-	-	-	-	-	-
23	MW-11A	X	X	X	1	1	1	1	1	1	1	1	1	1
24	MW-11B	X	X	X	-	-	-	-	-	-	-	-	-	-
25	MW-11C	X	X	X	-	-	-	-	-	-	-	-	-	-
26	MW-12A	X	X	X	1	-	-	-	-	-	-	-	-	-
27	MW-13A	X	X	X	1	-	-	-	-	-	-	-	-	-
28	MW-13B	X	X	X	1	-	-	-	-	-	-	-	-	-
29	MW-13C	X	X	X	1	-	-	-	-	-	-	-	-	-
30	MW-14A	X	X	X	1	-	-	-	-	-	-	-	-	-
31	MW-15A	X	X	X	1	1	1	1	1	1	1	1	1	1
32	MW-15B	X	X	X	1	1	1	1	1	1	1	-	-	-
33	MW-15C	X	X	X	1	1	1	1	1	1	1	-	-	-
34	MW-16A	X	X	X	1	1	1	1	1	1	1	1	1	1
35	MW-16B	X	X	X	1	1	1	1	1	1	1	-	-	-
36	MW-16C	X	X	X	1	1	1	1	1	1	1	-	-	-
37	MW-17A	X	X	X	1	-	-	-	-	-	-	-	-	-
38	MW-18A	X	X	X	1	-	-	-	-	-	-	-	-	-

Table 3 - Groundwater Sampling Program (June/July 2015)
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

		Monitored Natural Attenuation (MNA) Parameters												
		General			Tier I (General USEPA OSWER Directive to demostrate degradation pathway)							Tier II		
					Groundwater							Groundwater		
	Well Identification	Gauging	VOCs (8260C)	pH, DO, ORP, Temp., Spec. Conductance, Turbidity (Field)	Dissolved Gases (ethene, ethane, methane, and acetylene)	Nitrate, nitrite, sulfate, chloride	Total and dissolved iron and manganese	Ferrous Iron	Sulfide	Volatile Fatty Acids (Metabolic Acids)	Total Organic Carbon (TOC)	Compound Specific Isotope Analysis (CSIA) - 13/12C	QuantArray-Chlor	CO_2
39	MW-18B	X	X	X	1	-	-	-	-	-	-	-	-	-
40	MW-19A	X	X	X	1	-	-	-	-	-	-	-	-	-
41	MW-19B	X	X	X	1	-	-	-	-	-	-	-	-	-
42	MW-19C	X	X	X	1	-	-	-	-	-	-	-	-	-
43	MW-19D	X	X	X	1	-	-	-	-	-	-	-	-	-
44	MW-20C	X	X	X	1	-	-	-	-	-	-	-	-	-
45	MW-21B	X	X	X	-	-	-	-	-	-	-	-	-	-
46	MW-21C	X	X	X	-	-	-	-	-	-	-	-	-	-
47	MW-22A	X	X	X	-	-	-	-	-	-	-	-	-	-
48	MW-22B	X	X	X	-	-	-	-	-	-	-	-	-	-
50	MW-23A	X	X	X	-	-	-	-	-	-	-	-	-	-
51	MW-23B	X	X	X	1	-	-	-	-	-	-	-	-	-
49	MW-24C	X	X	X	1	-	-	-	-	-	-	-	-	-
52	OF-1 (8557)	NA	NA	NA	-	-	-	-	-	-	-	-	-	-
53	OF-2 (8639)		X		-	-	-	-	-	-	-	-	-	-
54	SS-1		X		-	-	-	-	-	-	-	-	-	-
55	SS-2		X		-	-	-	-	-	-	-	-	-	-
	Totals:	52	53	52	37	8	8	8	8	8	8	4	4	4

NA: Not Accessible

Table 4 - Summary of Groundwater Elevation Data - June 2015
Tara Shopping Center, 8564 Tara Blvd, Jonesboro, Georgia

					June 30-31, 2015		
Well Identification	**Water Bearing Unit**	**Top of Casing Elevation (ft. above MSL)**	**Ground Surface Elevation (ft. above MSL)**	**Depth to Top of Bedrock Elevation (ft. above MSL)**	**Depth to Water (ft-TOC)**	**Total Depth (ft-TOC)**	**Groundwater Elevation (ft. above MSL)**
MW-1A	Shallow	898.82	899.14	-	23.64	24.90	875.18
MW-1C	Bedrock	899.01	899.24	835.24	36.74	101.21	862.27
MW-3A	Shallow	892.41	892.70	-	18.83	25.15	873.58
MW-3B	Intermediate	892.54	892.70	837.70	19.00	55.60	873.54
MW-4A	Shallow	884.63	884.96	-	11.60	25.10	873.03
MW-4B	Intermediate	884.67	884.95	824.95	12.60	59.09	872.07
MW-5A	Shallow	883.48	883.72	-	11.86	24.94	871.62
MW-5B	Intermediate	883.43	883.72	837.72	11.90	45.29	871.53
MW-5C	Bedrock	883.64	883.88	824.88	14.50	90.02	869.14
MW-6A	Shallow	881.41	881.70	-	9.98	24.99	871.43
MW-6B	Intermediate	881.54	881.80	814.80	10.26	67.16	871.28
MW-7B	Intermediate	896.93	897.15	864.15	25.91	32.60	871.02
MW-7C	Bedrock	896.96	897.22	864.22	31.44	62.83	865.52
MW-8A	Shallow	895.14	895.27	-	24.46	31.80	870.68
MW-8B	Intermediate	895.02	895.26	838.26	24.41	57.60	870.61
MW-8C	Bedrock	895.04	895.27	837.27	30.65	85.22	864.39
MW-9A	Shallow	891.65	892.20	-	18.87	30.35	872.78
MW-9B	Intermediate	892.08	892.20	830.20	19.80	63.50	872.28
MW-9C	Bedrock	891.92	892.10	816.10	19.31	94.73	872.61
MW-10A	Shallow	896.76	897.09	-	25.11	38.00	871.65
MW-10B	Intermediate	896.55	896.95	-	24.90	39.20	871.65
MW-10C	Bedrock	896.65	896.99	832.99	31.04	88.25	865.61
MW-11A	Shallow	893.90	894.24	-	22.52	30.15	871.38
MW-11B	Intermediate	893.79	894.18	837.18	22.65	56.82	871.14
MW-11C	Bedrock	894.06	894.41	837.41	23.64	88.00	870.42
MW-12A	Shallow	891.28	891.30	-	18.36	30.06	872.92
MW-13A	Shallow	881.08	881.35	-	8.54	24.32	872.54
MW-13B	Intermediate	881.09	881.30	809.30	8.59	71.20	872.50
MW-13C	Bedrock	881.16	881.36	810.36	8.72	87.90	872.44
MW-14A	Shallow	899.70	899.86	-	24.81	35.65	874.89
MW-15A	Shallow	888.05	888.30	-	19.29	37.65	868.76
MW-15B	Intermediate	888.09	888.30	839.30	19.20	47.77	868.89
MW-15C	Bedrock	890.47	890.73	842.73	28.18	69.79	862.29
MW-16A	Shallow	879.48	879.90	-	11.24	32.57	868.24
MW-16B	Intermediate	879.65	879.90	835.90	10.98	43.44	868.67

Table 4 - Summary of Groundwater Elevation Data - June 2015
Tara Shopping Center, 8564 Tara Blvd, Jonesboro, Georgia

					June 30-31, 2015		
Well Identification	**Water Bearing Unit**	**Top of Casing Elevation (ft. above MSL)**	**Ground Surface Elevation (ft. above MSL)**	**Depth to Top of Bedrock Elevation (ft. above MSL)**	**Depth to Water (ft-TOC)**	**Total Depth (ft-TOC)**	**Groundwater Elevation (ft. above MSL)**
MW-16C	Bedrock	878.84	878.97	837.97	13.07	68.12	865.77
MW-17A	Shallow	893.98	894.33	-	22.58	29.86	871.40
MW-18A	Shallow	888.29	888.63	-	15.65	30.11	872.64
MW-18B	Intermediate	888.23	888.60	-	17.05	56.64	871.18
MW-19A	Shallow	879.94	880.10	-	12.21	34.20	867.73
MW-19B	Intermediate	880.17	880.32	814.32	12.39	61.18	867.78
MW-19C	Bedrock	880.01	880.21	795.21	12.40	84.88	867.61
MW-19D	Bedrock	880.08	880.35	814.35	12.32	105.70	867.76
MW-20C	Bedrock	875.44	875.75	875.75	16.54	44.88	858.90
MW-21B	Intermediate	871.40	871.74	825.74	12.55	39.54	858.85
MW-21C	Bedrock	871.41	871.76	825.76	14.19	74.81	857.22
MW-22A	Shallow	883.00	883.54	-	9.37	29.60	873.63
MW-22B	Intermediate	883.29	883.61	806.11	9.56	76.40	873.73
MW-23A	Shallow	888.10	888.29	-	12.24	19.15	875.86
MW-23B	Intermediate	888.23	888.52	819.52	13.15	69.28	875.08
MW-24C	Bedrock	884.57	884.57	849.57	35.29	43.65	849.28
REAM GAUGE (SG)		854.74	*851.39*	NA	NM	NM	NM

Notes:
(ft. bgs) = feet below ground surface
(ft) = feet
(ft-TOC) = feet below top of inner PVC casing
(ft. above MSL) = feet above mean sea level
NM = Not measured

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-1A	MW-1C	MW-3A	MW-3B	MW-4A	MW-4B	MW-5A	MW-5B	MW-5C	MW-6A
Lab Sample Number		680-114152-5	680-114152-6	680-114236-10	680-114236-15	680-114236-21	680-114236-18	680-114236-13	680-114574-17	680-114574-1	680-114152-7
Sampling Date		7/1/2015	7/1/2015	7/2/2015	7/1/2015	7/2/2015	7/1/2015	7/1/2015	7/15/2015	7/14/2015	6/30/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1	1	1	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern											
Tetrachloroethene	5	**11**	1 U	**11**	1 U	**1.2**	1 U	1 U	**340 D**	**2.9**	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**200 D**	**2**	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**570 D**	**1.6**	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.3**	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**1**	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**4.6**	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total VOCs		93	83	93	83	83.2	83	83	1194.9	86.5	83

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-6B	MW-7B	MW-7C	MW-8A	MW-8B	MW-8C	MW-9A	MW-9B	MW-9C	MW-10A
Lab Sample Number		**680-114152-3**	**680-114236-16**	**680-114236-14**	**680-114574-2**	**680-114574-7**	**680-114236-3**	**680-114574-8**	**680-114236-20**	**680-114236-19**	**680-114574-4**
Sampling Date		**6/30/2015**	**7/1/2015**	**7/1/2015**	**7/14/2015**	**7/14/2015**	**7/2/2015**	**7/14/2015**	**7/2/2015**	**7/1/2015**	**7/14/2015**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor		**1**	**1**	**1**	**1**	**2**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
GC/MS VOA - 8260B		**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**
Constituents of Concern											
Tetrachloroethene	5	1 U	**5.4**	1 U	**96**	**7.7**	1 U	**310 D**	1 U	1 U	**220 D**
Trichloroethene	5	1 U	1 U	1 U	1 U	2 U	1 U	**180**	1 U	1 U	**37**
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U	2 U	1 U	**7.9**	1 U	1 U	**21**
Vinyl chloride	2	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	10 U	10 U	20 U	**96**	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	20 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	10 U	10 U	10 U	10 U	**38**	**77**	**12**	10 U	10 U	10 U
Benzene	5	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	4 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	1 U	1 U	1 U	**4.4**	2 U	1 U	1 U	1 U	1 U	**4.9**
Chloromethane	NP	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	2 U	1 U	**7.3**	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	1 U
Total VOCs		83	87.4	83	181.4	45.7	173	517.2	83	83	361.9

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-10B	MW-10C	MW-11A	MW-11B	MW-11C	MW-12A	MW-13A	MW-13B	MW-13C	MW-14A
Lab Sample Number		**680-114236-9**	**680-114236-8**	**680-114593-1**	**680-114236-1**	**680-114236-2**	**680-114236-7**	**680-114574-16**	**680-114574-5**	**680-114574-3**	**680-114236-4**
Sampling Date		**7/2/2015**	**7/2/2015**	**7/16/2015**	**7/2/2015**	**7/2/2015**	**7/2/2015**	**7/15/2015**	**7/14/2015**	**7/14/2015**	**7/2/2015**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor		**1**	**1**	**2**	**2**	**1**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
GC/MS VOA - 8260B		**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**
Constituents of Concern											
Tetrachloroethene	5	1 U	**3.4**	**2.7**	2 U	1 U	**5.7**	**750 D**	**290 D**	**7.5**	**7.7**
Trichloroethene	5	1 U	1 U	2 U	2 U	1 U	1 U	**730 D**	**130**	**1.2**	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	2 U	2 U	1 U	1 U	**2000 D**	**130**	**3.1**	1 U
Vinyl chloride	2	1 U	1 U	2 U	2 U	1 U	1 U	**180**	**1.9**	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	2 U	2 U	1 U	1 U	**3.4**	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	20 U	20 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	**16**	**12**	20 U	**28**	10 U	10 U	25	10 U	10 U	10 U
Benzene	5	1 U	1 U	2 U	2 U	1 U	1 U	**17**	1 U	1 U	1 U
Bromoform	80	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	4 U	4 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	10 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	2 U	2 U	1 U	1 U	**13**	**1.4**	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	1 U	1 U	2 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U
Total VOCs		89	87.4	166.7	174	83	87.7	3784.4	631.3	91.8	89.7

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-15A	MW-15B	MW-15C	Dup-2 MW-15C	MW-16A	MW-16B	MW-16C	MW-17A	MW-18A	MW-18B
Lab Sample Number		680-114574-13	680-114574-14	680-114574-15	680-114574-21	680-114574-18	680-114574-19	680-114574-20	680-114574-6	680-114236-23	680-114236-22
Sampling Date		7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/15/2015	7/14/2015	7/2/2015	7/2/2015
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
Dilution Factor		2	1	1	1	1	1	1	2	1	1
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
Constituents of Concern											
Tetrachloroethene	5	**320**	**72**	**10**	**9.9**	**400 D**	**980 D**	**820 D**	**3.1**	**1.3**	**2.1**
Trichloroethene	5	**87**	**3.1**	**1.9**	**2**	**49**	**92**	**72**	2 U	1 U	1 U
cis-1,2-Dichloroethene	70	**19**	1 U	1 U	1 U	**93**	**190**	**110**	2 U	1	1 U
Vinyl chloride	2	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1,2-Trichloroethane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1-Dichloroethane	400	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,1-Dichloroethene	7	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,2-Dichloroethane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
1,2-Dichloropropane	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
2-Butanone (MEK)	200	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U
2-Hexanone	NP	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	20 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U
Acetone	400	20 U	10 U	10 U	10 U	10 U	10 U	10 U	**98**	10 U	10 U
Benzene	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Bromoform	80	2 U	1 U	1 U	1 U	1 U	1 U	1 U	**2.1**	1 U	1 U
Bromomethane	NP	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Carbon disulfide	400	4 U	2 U	**30**	**35**	2 U	2 U	2 U	4 U	2 U	2 U
Carbon tetrachloride	5	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chlorobenzene	100	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chlorodibromomethane	80	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Chloroethane	NP	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Chloroform	80	2 U	1 U	**22**	**23**	1 U	1 U	1 U	2 U	1 U	1 U
Chloromethane	NP	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
cis-1,3-Dichloropropene	NP	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Dichlorobromomethane	80	2 U	1 U	**1.6**	**1.5**	1 U	1 U	1 U	2 U	1 U	1 U
Ethylbenzene	700	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Methylene Chloride	3	10 U	5 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U
Styrene	100	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Toluene	1000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
trans-1,2-Dichloroethene	100	2 U	1 U	1 U	1 U	**2.8**	**17**	**2**	2 U	1 U	1 U
trans-1,3-Dichloropropene	NP	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Xylenes, Total	10000	2 U	1 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U
Total VOCs		586	156.1	142.5	148.4	623.8	1358	1083	245.2	83.3	84.1

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	Dup-1 MW-18B	MW-19A	MW-19B	Dup-1 MW-19B	MW-19C	MW-19D	MW-20C	MW-21B	MW-21C	MW-22A
Lab Sample Number		**680-114236-11**	**680-114236-17**	**680-114574-10**	**680-114574-12**	**680-114574-9**	**680-114574-11**	**680-114236-6**	**680-114152-8**	**680-114152-9**	**680-114152-1**
Sampling Date		**7/2/2015**	**7/1/2015**	**7/14/2015**	**7/14/2015**	**7/14/2015**	**7/14/2015**	**7/2/2015**	**7/1/2015**	**7/1/2015**	**6/30/2015**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
GC/MS VOA - 8260B		**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**
Constituents of Concern											
Tetrachloroethene	5	**2.3**	1 U	370 D	**360 D**	**200**	**12**	**53**	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	**34**	**33**	**18**	**1.2**	**5**	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	**47**	**48**	**32**	**1.9**	**4.9**	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	**68**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	**2**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5	1 U	450 D	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	**2**	1 U
Chloromethane	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	**12**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	**1.8**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	**1**	**1.2**	**1.2**	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	1 U	**63**	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total VOCs		84.3	673.8	531	521.2	330.2	95.1	142.9	83	84	83

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

Table 5 - Summary of VOC Analytical Results - June/July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Type 1 Risk Reductions Standards	MW-22B	MW-23A	MW-23B	MW-24C	Trip Blank	Trip Blank	Trip Blank	Trip Blank	Field Blank
Lab Sample Number		**680-114152-2**	**680-114152-10**	**680-114152-4**	**680-114236-5**	**680-114152-11**	**680-114236-12**	**680-114574-22**	**680-114593-6**	**680-114593-5**
Sampling Date		**6/30/2015**	**6/30/2015**	**6/30/2015**	**7/2/2015**	**6/25/2015**	**6/25/2015**	**7/14/2015**	**7/16/2015**	**7/16/2015**
Matrix		**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**	**Water**
Dilution Factor		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Units		**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**	**ug/L**
GC/MS VOA - 8260B		**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**	**Low**
Constituents of Concern										
Tetrachloroethene	5	1 U	1 U	1 U	**41**	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	70	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds										
1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetone	400	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	5	1 U	1 U	**6.7**	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	**2.4**	**3.7**	**7.5**	**1.8**	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	1 U	1 U	**1.1**	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1000	1 U	1 U	**5.4**	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10000	1 U	1 U	**1.8**	1 U	1 U	1 U	1 U	1 U	1 U
Total VOCs		84.4	85.7	100.5	123.8	83	83	83	83	83

QUALIFIERS

µg/L - micrograms per liter

D - Diluted Value. Dilutions were noted on MW-8A, MW-8I

U - value not detected above the laboratory reporting limit.

Yellow - exceeds Type 1 Risk Reduction Standard for Grour

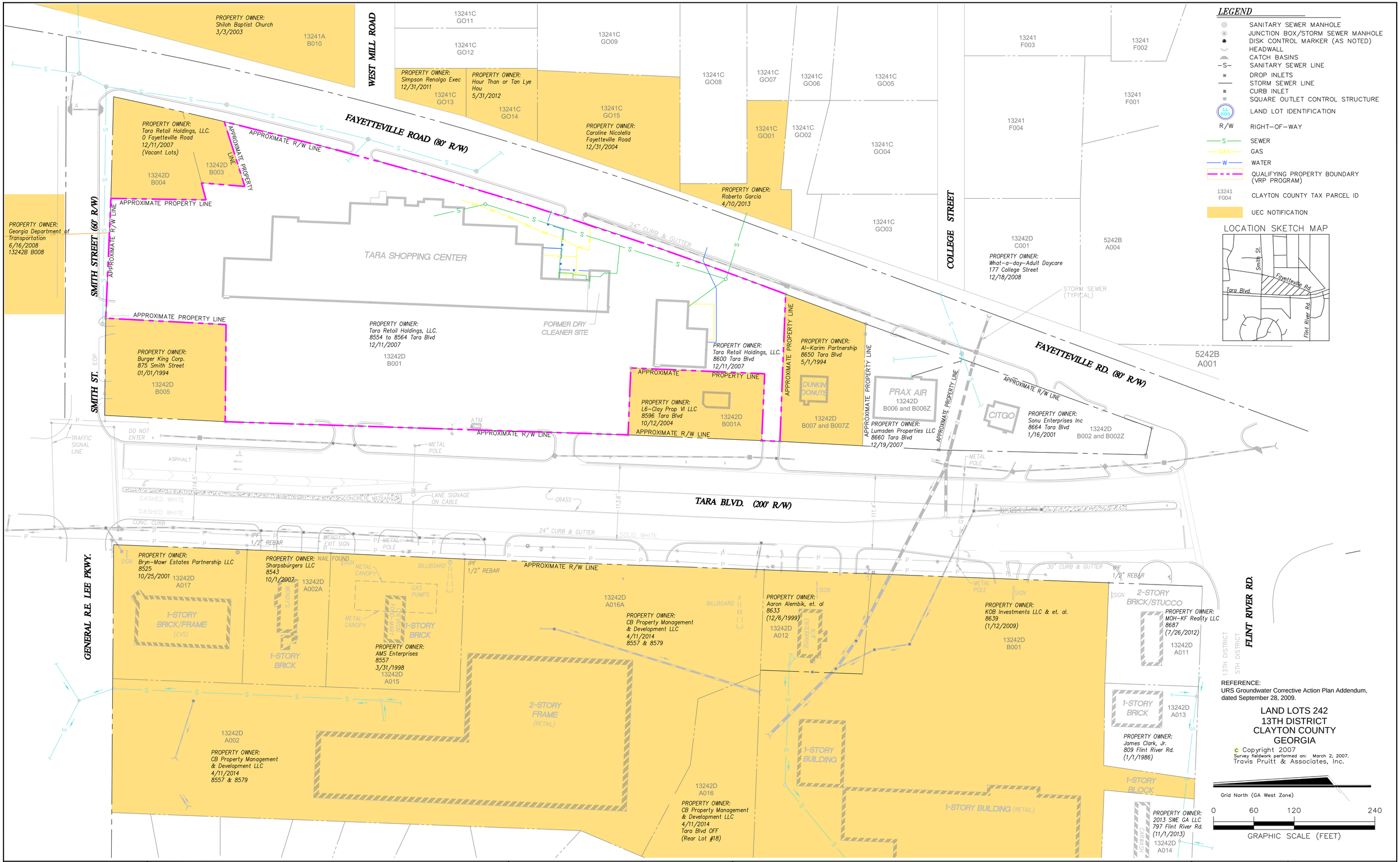
Table 6 - Summary of Surface Water Analytical Results - July 2015
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Georgia In Stream Water Quality Standards (ISWQSs) May 2015	OF-2	SS-1	SS-2
Lab Sample Number		**680-114593-2**	**680-114593-3**	**680-114593-4**
Sampling Date		07/16/2015 10:30:00	7/16/2015	7/16/2015
Matrix		Water	Water	Water
Dilution Factor		1	1	1
Units		ug/L	ug/L	ug/L
GC/MS VOA - 8260B		Low	Low	Low
Constituents of Concern				
Tetrachloroethene	3.3	**76**	**36**	**17**
Trichloroethene	30	**12**	**2.7**	1 U
cis-1,2-Dichloroethene	NA	**5.9**	**2.3**	1 U
Vinyl chloride	2.4	1 U	1 U	1 U
Other VOC Compounds				
1,1,1-Trichloroethane		1 U	1 U	1 U
1,1,2,2-Tetrachloroethane		1 U	1 U	1 U
1,1,2-Trichloroethane		1 U	1 U	1 U
1,1-Dichloroethane		1 U	1 U	1 U
1,1-Dichloroethene		1 U	1 U	1 U
1,2-Dichloroethane		1 U	1 U	1 U
1,2-Dichloropropane		1 U	1 U	1 U
2-Butanone (MEK)		10 U	10 U	10 U
2-Hexanone		10 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)		10 U	10 U	10 U
Acetone		10 U	10 U	10 U
Benzene		1 U	1 U	1 U
Bromoform		1 U	1 U	1 U
Bromomethane		5 U	5 U	5 U
Carbon disulfide		2 U	2 U	2 U
Carbon tetrachloride		1 U	1 U	1 U
Chlorobenzene		1 U	1 U	1 U
Chlorodibromomethane		1 U	1 U	1 U
Chloroethane		5 U	5 U	5 U
Chloroform		1 U	1 U	1 U
Chloromethane		1 U	1 U	1 U
cis-1,3-Dichloropropene		1 U	1 U	1 U
Dichlorobromomethane		1 U	1 U	1 U
Ethylbenzene		1 U	1 U	1 U
Methylene Chloride		5 U	5 U	5 U
Styrene		1 U	1 U	1 U
Toluene		1 U	1 U	1 U
trans-1,2-Dichloroethene		1 U	1 U	1 U
trans-1,3-Dichloropropene		1 U	1 U	1 U
Xylenes, Total		1 U	1 U	1 U
Total VOCs		93.9	41	17

QUALIFIERS

µg/L - micrograms per liter
U - value not detected above the laboratory reporting limit.
Yellow - exceeds Georgia In Stream Water Quality Standards (ISWQSs) May 2015 (391-3-6-.03)

FIGURES



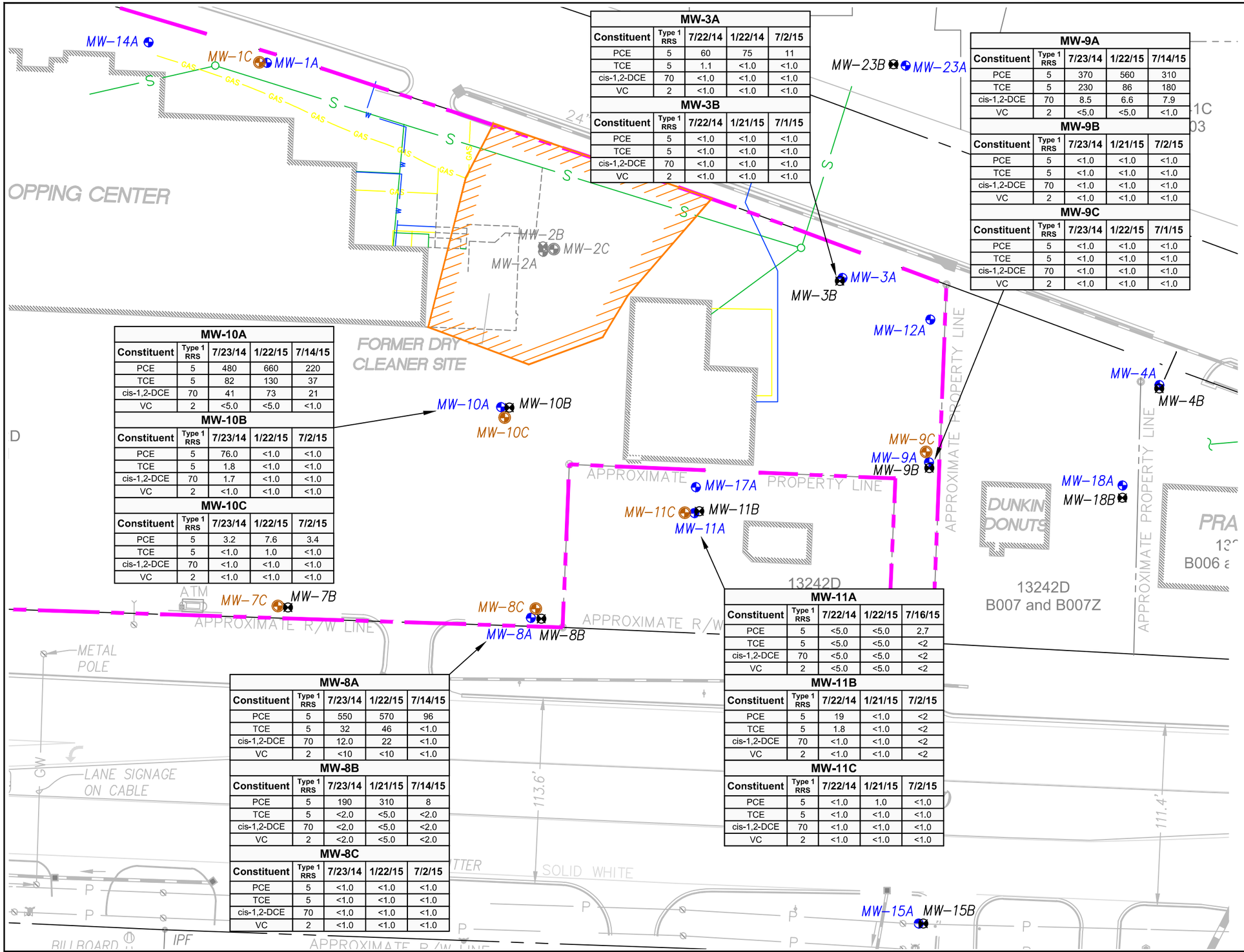
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.: Add properties to the east of Fayetteville Road	Date: 12/2012
Rev.		By:	Disc.: Update property ownership information	Date: 03/2013
Rev.		By:	Disc.: Update property ownership information for UEC	Date: 08/2015
Rev.		By:	Disc.:	Date:

TARA HOLDINGS
8564 TARA BOULEVARD
JONESBORO, GEORGIA

FIGURE 1
SITE PLAN, TAX PARCEL INFORMATION AND QUALIFYING PROPERTY BOUNDARY

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 1	



MW-3A

Constituent	Type 1 RRS	7/22/14	1/22/14	7/2/15
PCE	5	60	75	11
TCE	5	1.1	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-3B

Constituent	Type 1 RRS	7/22/14	1/21/15	7/1/15
PCE	5	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-9A

Constituent	Type 1 RRS	7/23/14	1/22/15	7/14/15
PCE	5	370	560	310
TCE	5	230	86	180
cis-1,2-DCE	70	8.5	6.6	7.9
VC	2	<5.0	<5.0	<1.0

MW-9B

Constituent	Type 1 RRS	7/23/14	1/21/15	7/2/15
PCE	5	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-9C

Constituent	Type 1 RRS	7/23/14	1/22/15	7/1/15
PCE	5	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-10A

Constituent	Type 1 RRS	7/23/14	1/22/15	7/14/15
PCE	5	480	660	220
TCE	5	82	130	37
cis-1,2-DCE	70	41	73	21
VC	2	<5.0	<5.0	<1.0

MW-10B

Constituent	Type 1 RRS	7/23/14	1/22/15	7/2/15
PCE	5	76.0	<1.0	<1.0
TCE	5	1.8	<1.0	<1.0
cis-1,2-DCE	70	1.7	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-10C

Constituent	Type 1 RRS	7/23/14	1/22/15	7/2/15
PCE	5	3.2	7.6	3.4
TCE	5	<1.0	1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-8A

Constituent	Type 1 RRS	7/23/14	1/22/15	7/14/15
PCE	5	550	570	96
TCE	5	32	46	<1.0
cis-1,2-DCE	70	12.0	22	<1.0
VC	2	<10	<10	<1.0

MW-8B

Constituent	Type 1 RRS	7/23/14	1/21/15	7/14/15
PCE	5	190	310	8
TCE	5	<2.0	<5.0	<2.0
cis-1,2-DCE	70	<2.0	<5.0	<2.0
VC	2	<2.0	<5.0	<2.0

MW-8C

Constituent	Type 1 RRS	7/23/14	1/22/15	7/2/15
PCE	5	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

MW-11A

Constituent	Type 1 RRS	7/22/14	1/22/15	7/16/15
PCE	5	<5.0	<5.0	2.7
TCE	5	<5.0	<5.0	<2
cis-1,2-DCE	70	<5.0	<5.0	<2
VC	2	<5.0	<5.0	<2

MW-11B

Constituent	Type 1 RRS	7/22/14	1/21/15	7/2/15
PCE	5	19	<1.0	<2
TCE	5	1.8	<1.0	<2
cis-1,2-DCE	70	<1.0	<1.0	<2
VC	2	<1.0	<1.0	<2

MW-11C

Constituent	Type 1 RRS	7/22/14	1/21/15	7/2/15
PCE	5	<1.0	1.0	<1.0
TCE	5	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0

LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- DEEP RESIDUUM MONITORING WELL
- BEDROCK MONITORING WELL
- PCE — TETRACHLOROETHENE
- TCE — TRICHLOROETHENE
- cis-1,2-DCE — cis-1,2-DICHLOROETHENE
- VC — VINYL CHLORIDE
- TYPE 1 RRS — TYPE 1 RISK REDUCTION STANDARDS
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- ISS TREATMENT AREA
- LL 000 — LAND LOT IDENTIFICATION
- R/W — RIGHT-OF-WAY
- S — SEWER
- GAS — GAS
- W — WATER
- 13241 F004 — CLAYTON COUNTY TAX PARCEL ID

NOTES:
1. LESS THAN VALUE (<5.0) REPRESENTS THE LABORATORY REPORTING LIMIT.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/l).
3. MW-2A/B/C MONITORING WELLS ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

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Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014, & July 17, 2015.

Grid North (GA West Zone)

0 60 120

SCALE IN FEET

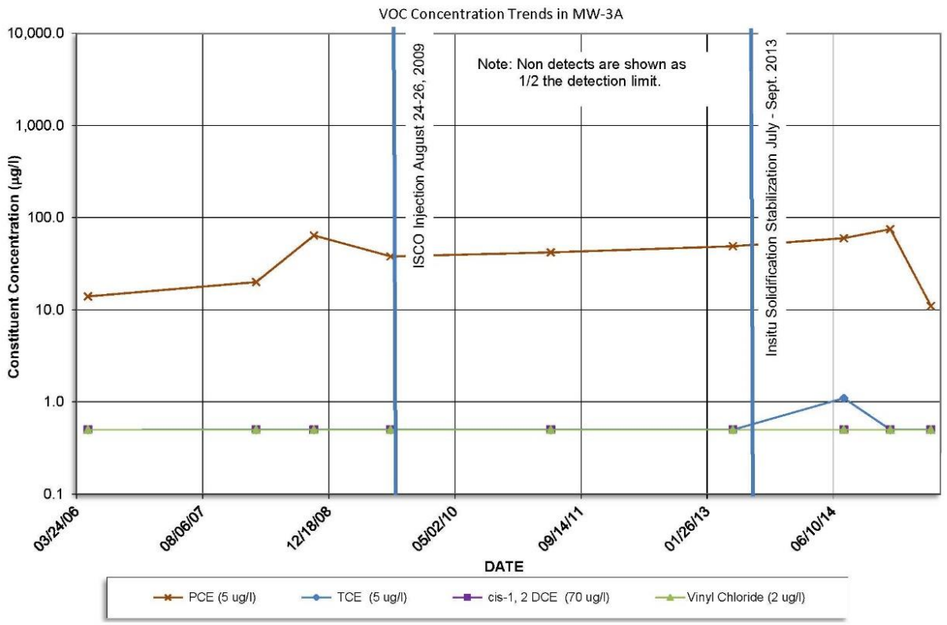
EHS Support consider it done

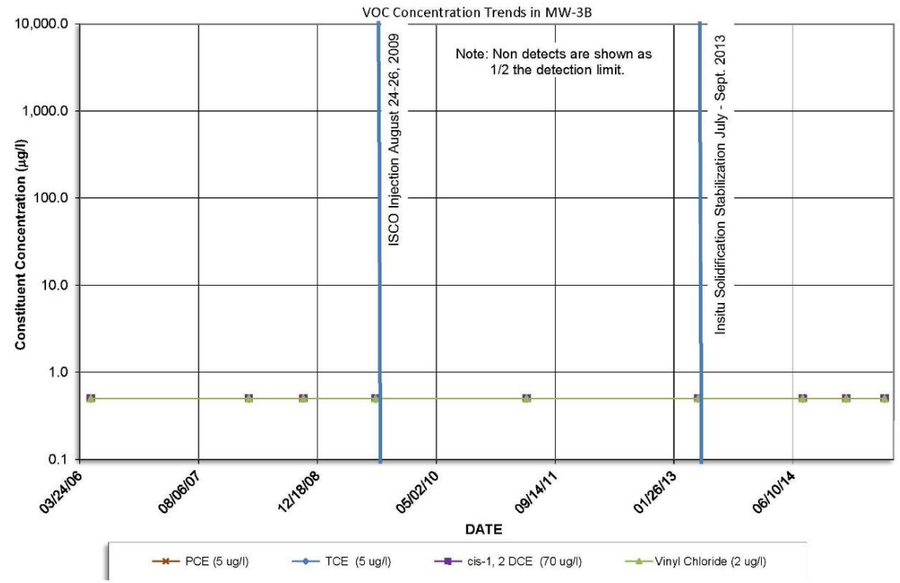
REVISIONS				
Rev.	By:	Disc.:	Date:	
Rev.	By:	Disc.:	Date:	
Rev.	By:	Disc.:	Date:	
Rev.	By:	Disc.:	Date:	

TARA SHOPPING CENTER
8564 Tara Boulevard
Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001;
HSI Site No. 10798

FIGURE 2
SOURCE AREA REMEDIATION PERFORMANCE MONITORING
GROUNDWATER ANALYTICAL RESULTS

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 60'	Plot Date:	08/2015
Project No.:	C00342	Figure 2	

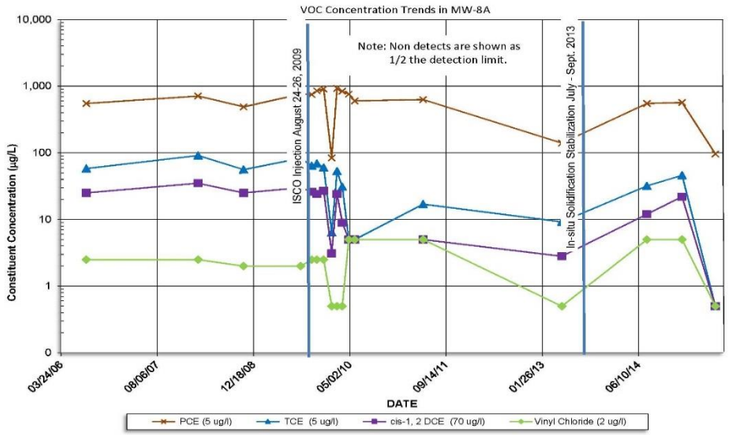


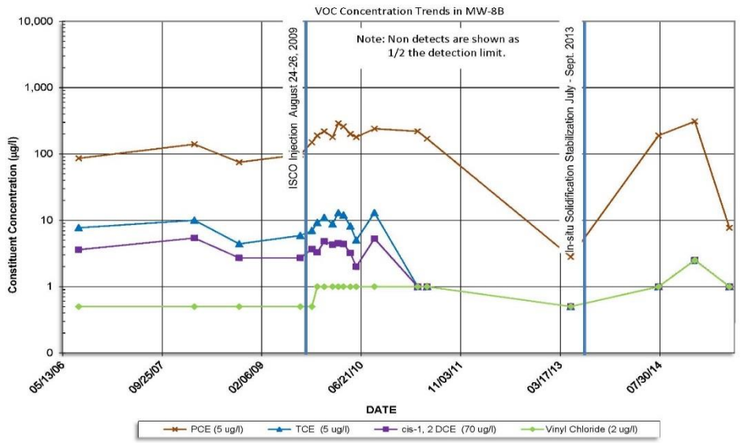


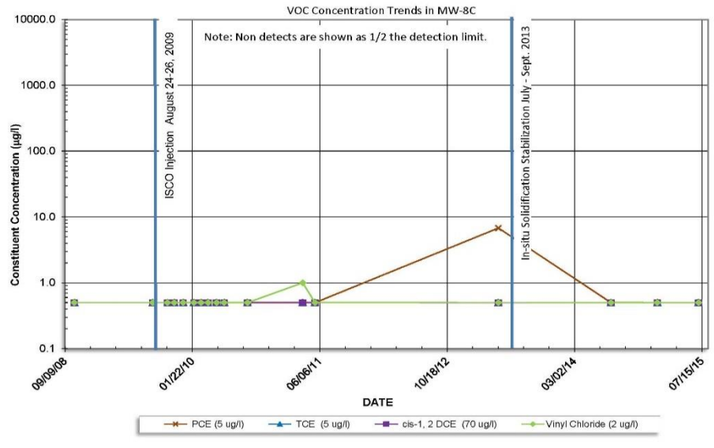
EHS Support *consider it done*

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA
Tax Parcel ID 13242D B001: HSI Site No. 10798

FIGURE 3
VOC TREND GRAPHS MW-3A/B



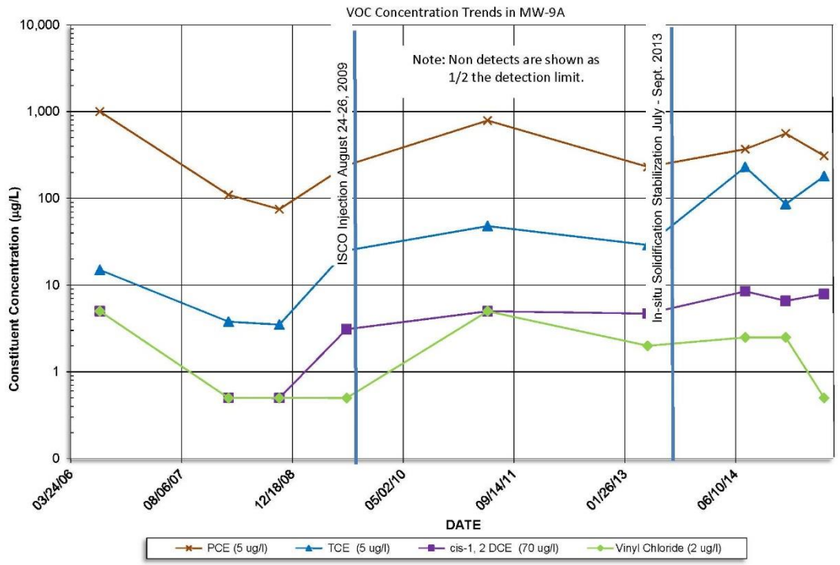


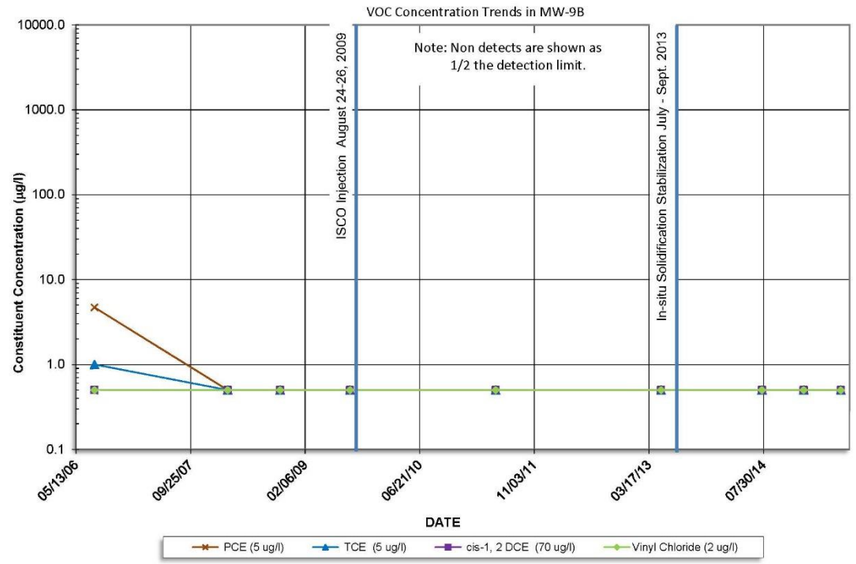


EHS Support *consider it done*

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA
Tax Parcel ID 13242D B001: HSI Site No. 10798

FIGURE 4
VOC TREND GRAPHS MW-8A/B/C

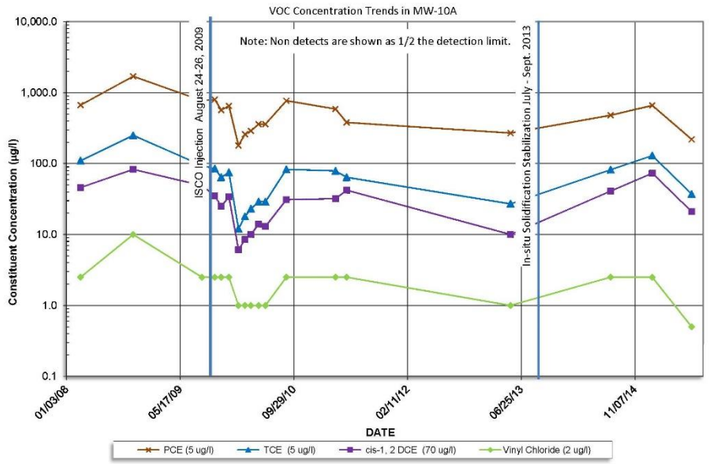


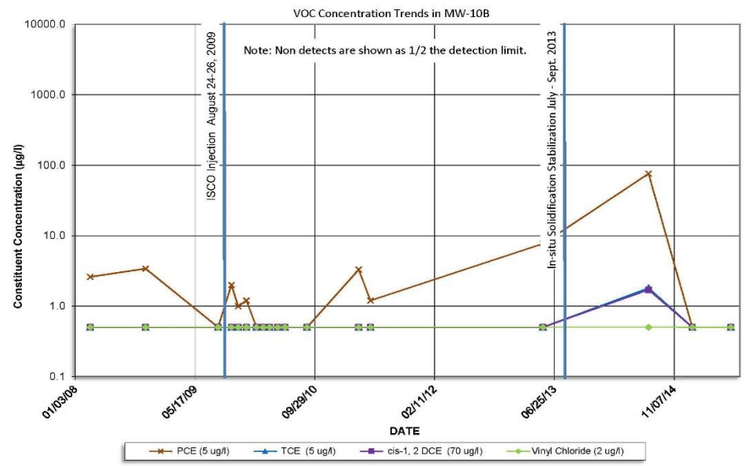


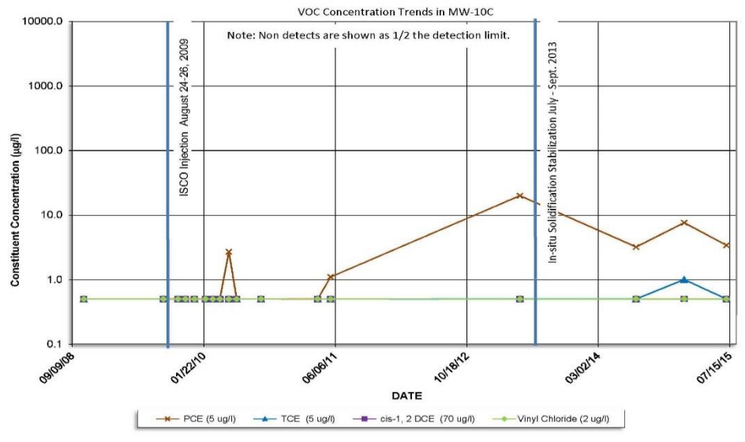
EHS Support consider it done

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA
Tax Parcel ID 13242D B001: HSI Site No. 10798

FIGURE 5
VOC TREND GRAPHS MW-9A/B



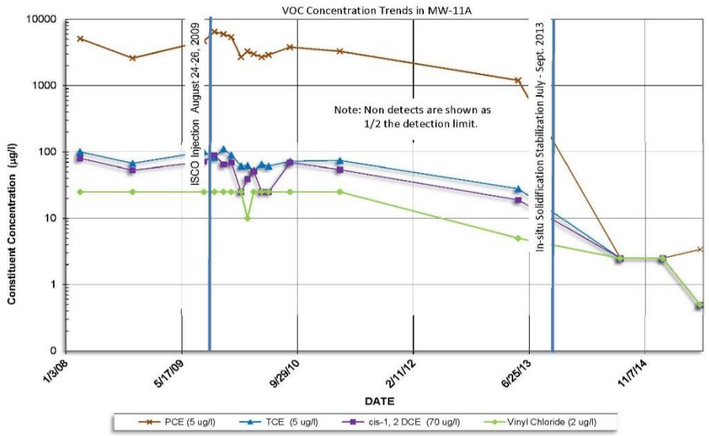


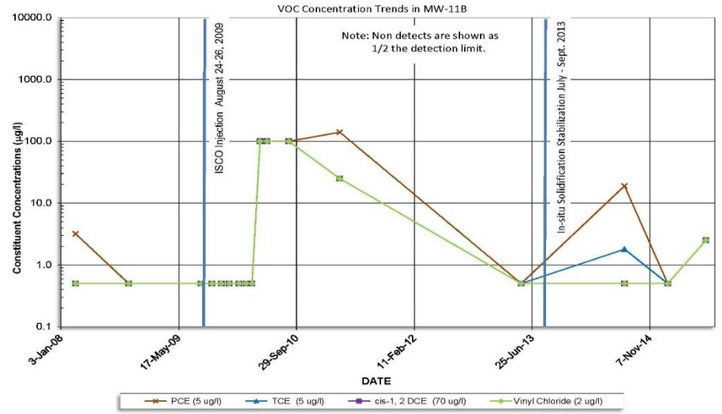


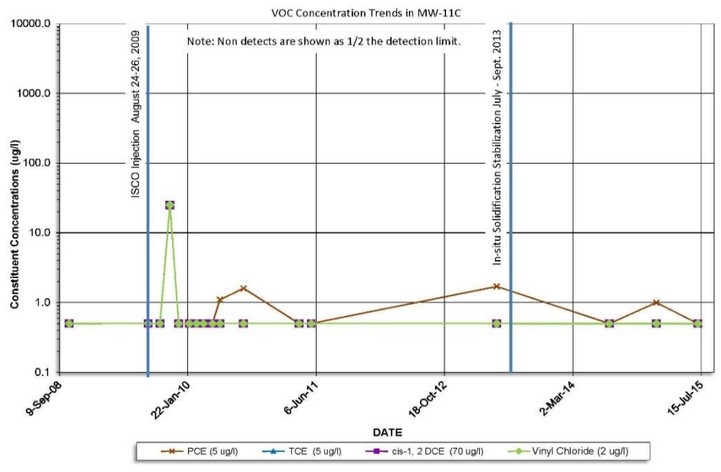
EHS Support
consider it done

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA
Tax Parcel ID 13242D B001: HSI Site No. 10798

FIGURE 6
VOC TREND GRAPHS MW-10A/B /C



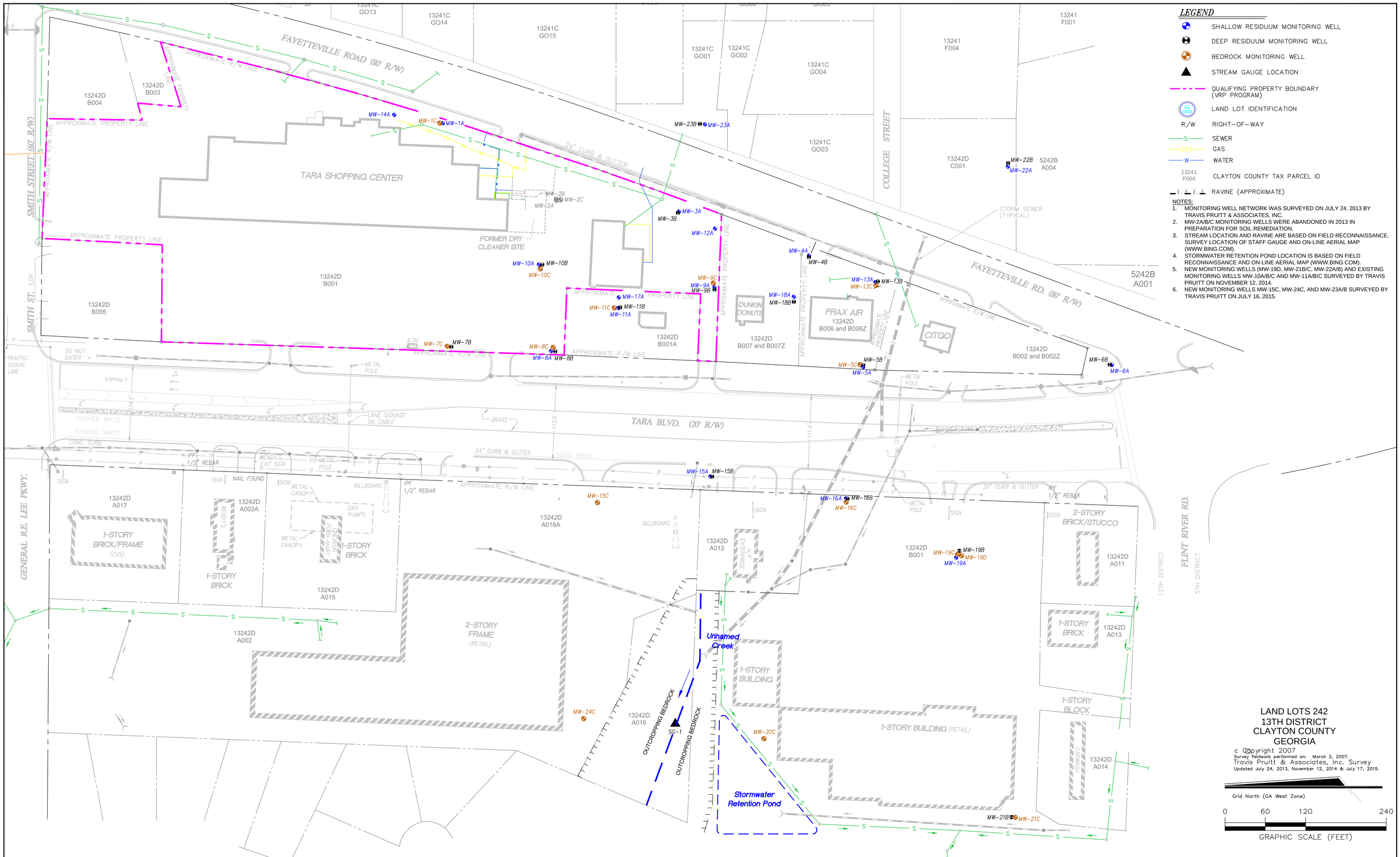




EHS Support *consider it done*

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA
Tax Parcel ID 13242D B001: HSI Site No. 10798

FIGURE 7
VOC TREND GRAPHS MW-11A/B /C



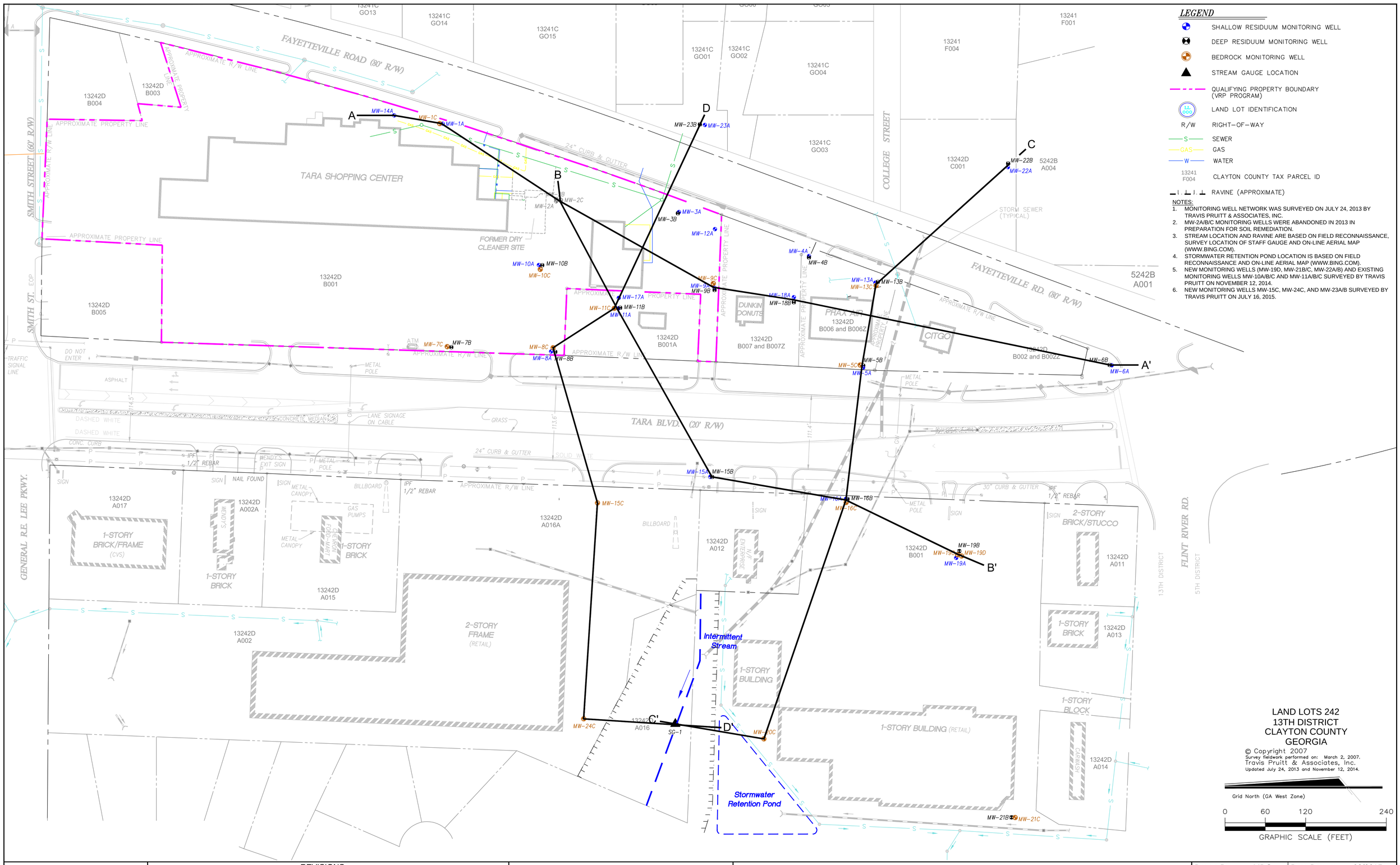
EHS Support consider it done

REVISIONS						
Rev.	1	By: MDO	Disc.: Stream gauge and ravine details added (approximate)	Date:	03/2014
Rev.	2	By: MDO	Disc.: Add MW-19D, MW-21 and MW-22 Clusters. Update designation for MW-19B and MW-19C.	Date:	12/2014
Rev.	3	By: MDO	Disc.: MW-15C, MW-24C, MW-23A/B installed June 2015	Date:	08/2015

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 8
MONITORING WELL NETWORK

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 8	



LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- DEEP RESIDUUM MONITORING WELL
- BEDROCK MONITORING WELL
- STREAM GAUGE LOCATION
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- LAND LOT IDENTIFICATION
- R/W — RIGHT-OF-WAY
- S — SEWER
- GAS — GAS
- W — WATER
- 13241 F004 — CLAYTON COUNTY TAX PARCEL ID
- RAVINE (APPROXIMATE)

NOTES:

1. MONITORING WELL NETWORK WAS SURVEYED ON JULY 24, 2013 BY TRAVIS PRUITT & ASSOCIATES, INC.
2. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION.
3. STREAM LOCATION AND RAVINE ARE BASED ON FIELD RECONNAISSANCE, SURVEY LOCATION OF STAFF GAUGE AND ON-LINE AERIAL MAP (WWW.BING.COM).
4. STORMWATER RETENTION POND LOCATION IS BASED ON FIELD RECONNAISSANCE AND ON-LINE AERIAL MAP (WWW.BING.COM).
5. NEW MONITORING WELLS (MW-19D, MW-21B/C, MW-22A/B) AND EXISTING MONITORING WELLS MW-10A/B/C AND MW-11A/B/C SURVEYED BY TRAVIS PRUITT ON NOVEMBER 12, 2014.
6. NEW MONITORING WELLS MW-15C, MW-24C, AND MW-23A/B SURVEYED BY TRAVIS PRUITT ON JULY 16, 2015.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

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Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc.
Updated July 24, 2013 and November 12, 2014.

Grid North (GA West Zone)

0 60 120 240

GRAPHIC SCALE (FEET)

EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

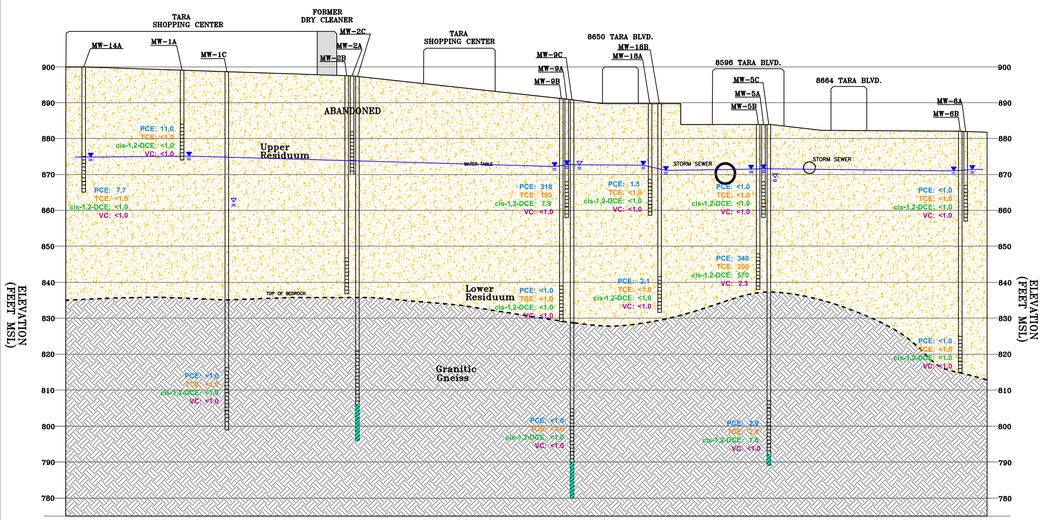
TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 9
CROSS SECTION LOCATION MAP

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 9	

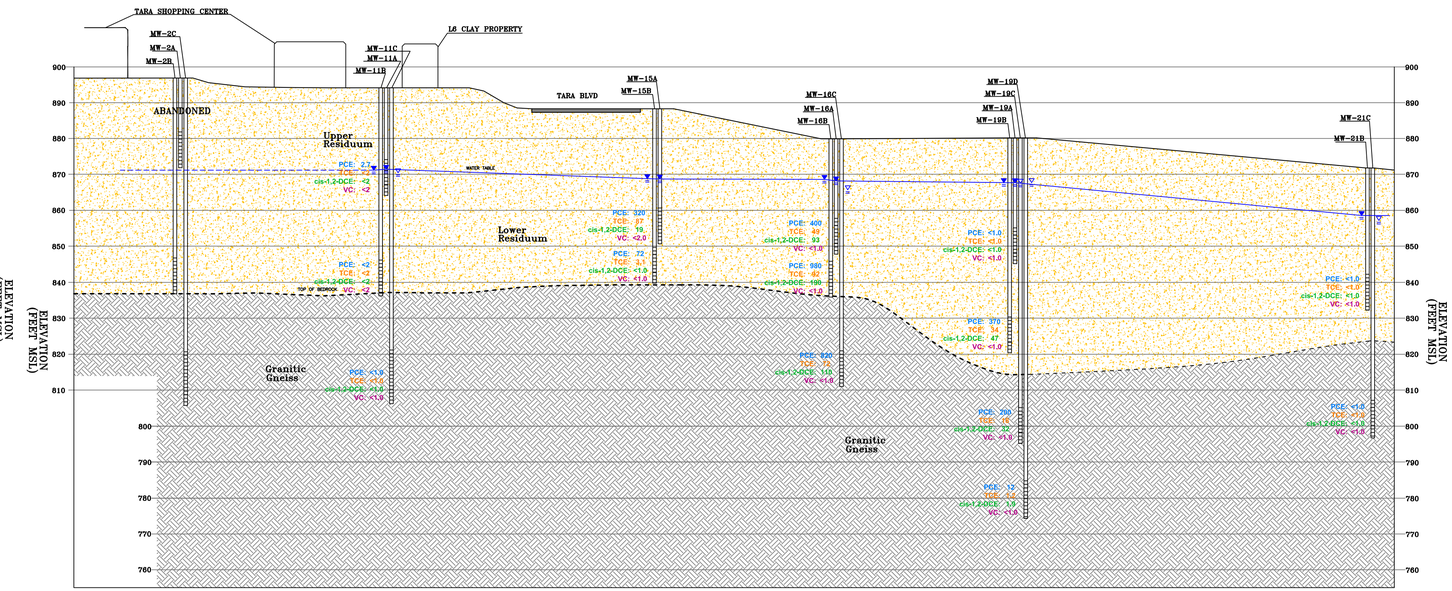
NORTHEAST
A

SOUTHWEST
A'



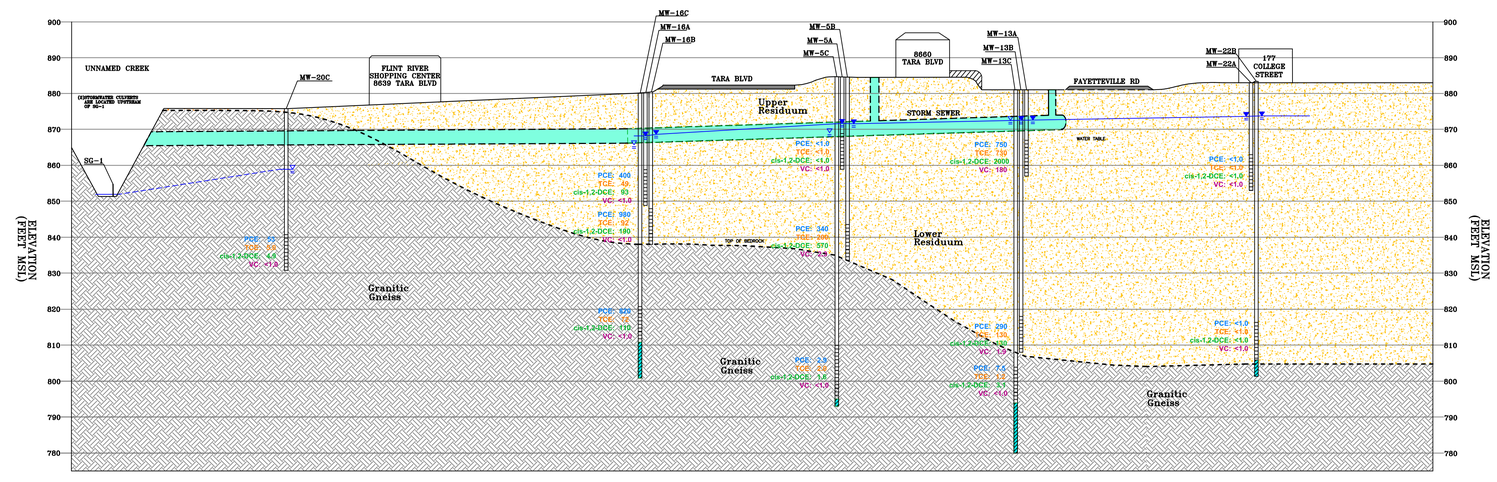
EAST
B

WEST
B'



WEST
C'

EAST
C



LEGEND

- UPPER RESIDUUM
  LOWER RESIDUUM
  (Clayey Silt)
- BEDROCK
- = SCREEN INTERVAL
- = BENTONITE
- MW = MONITORING WELL
- = RESIDUUM GROUNDWATER ELEVATION (Elevation recorded on June 29, 2015)
- = BEDROCK GROUNDWATER ELEVATION (Elevation recorded on June 29, 2015)

Notes:

1. Staff Gauge installed into unnamed creek in July 2013. Piece of steel rebar set into ground and painted orange.
2. Original cross section prepared by URS Corporation. Location of sub-grade sewer line has not been verified and is based on historic drawing previously prepared by URS Corporation, Groundwater Corrective Action Plan, March 20, 2009 and Groundwater Corrective Action Plan Addendum, September 28, 2009.
3. Storm water culverts identified in the field and are depicted on site plans. Both culverts drain in upgradient section of ravine.
4. Horizontal Scale is 1" = 25'.

References:

1. URS Corporation, Groundwater Corrective Action Plan, March 20, 2009.
2. Groundwater Corrective Action Plan Addendum, September 28, 2009.
3. Travis Pruitt Survey Report completed on, July 31, 2013.
   Updated February 3, 2014, July 24, 2014, November 12, 2014, and July 17, 2015 (New Wells).

EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

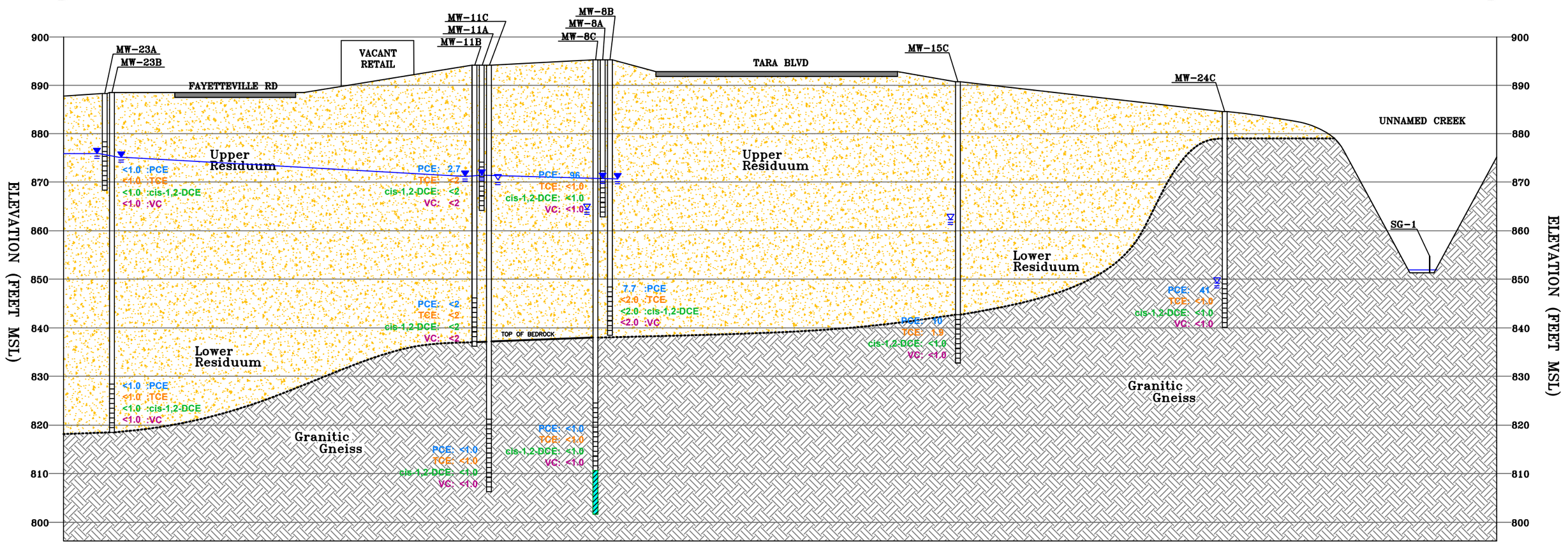
TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 10
CROSS SECTIONS A-A', B-B' AND C-C'

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	AS SHOWN	Plot Date:	08/2015
Project No.:	C00342	Figure 10	

EAST
D

WEST
D'



LEGEND

- UPPER RESIDUUM / LOWER RESIDUUM (Clayey Silt)
- BEDROCK
- = SCREEN INTERVAL
- = BENTONITE
- MW = MONITORING WELL
- = RESIDUUM GROUNDWATER ELEVATION (Elevation recorded on June 29, 2015)
- = BEDROCK GROUNDWATER ELEVATION (Elevation recorded on June 29, 2015)

Notes:
1. Horizontal Scale is 1" = 25'.

References:

1. URS Corporation, Groundwater Corrective Action Plan, March 20, 2009.
2. Travis Pruitt Survey Report completed on, July 31, 2013.
   Updated February 3, 2014, July 24, 2014, November 12, 2014, and July 17, 2015 (New Wells).

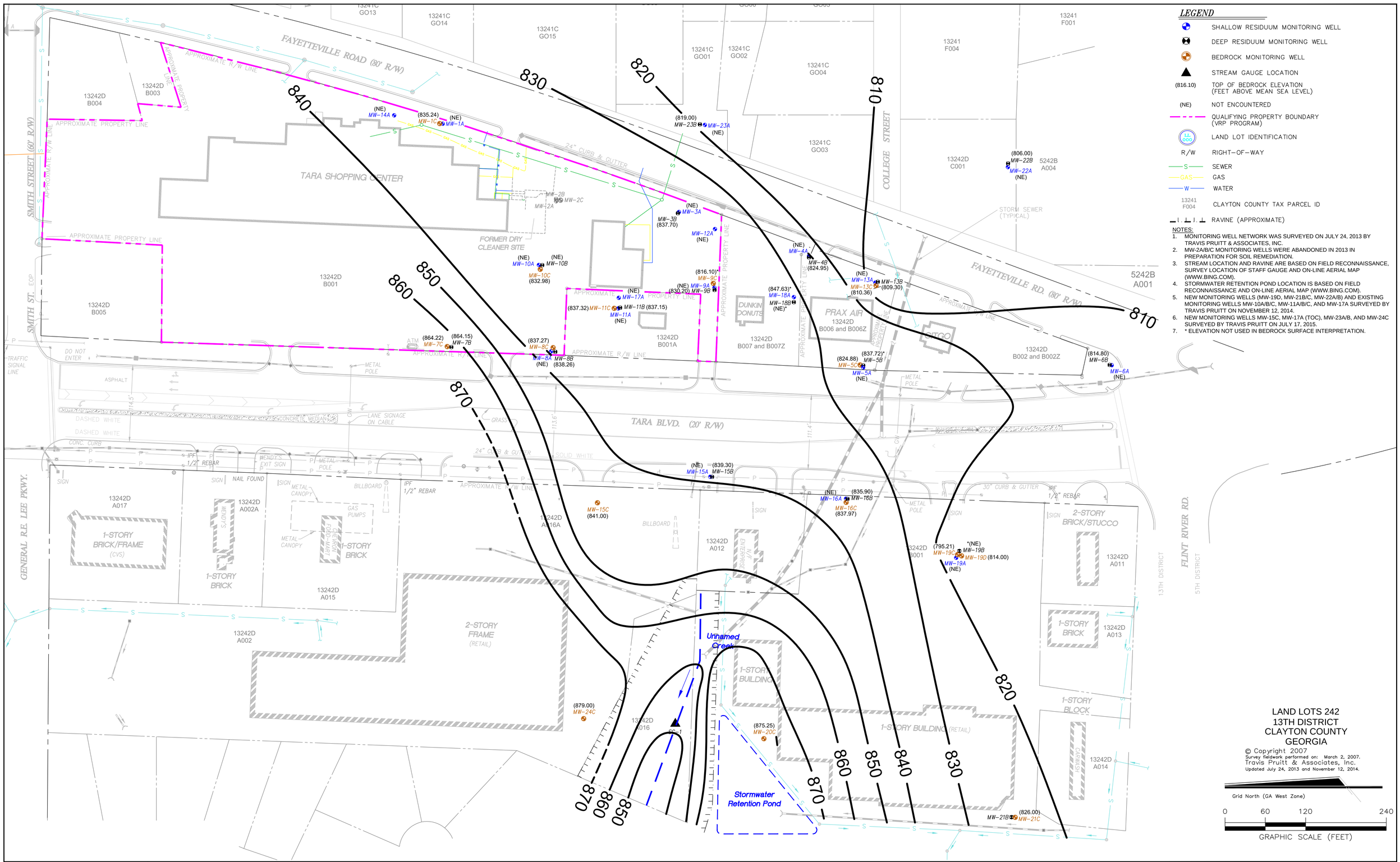
EHS Support *consider it done*

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro,
Clayton County, Georgia
Tax Parcel ID 13242D B001
HSI Site No. 10798

FIGURE 11
CROSS SECTION D - D'

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	AS SHOWN	Plot Date:	08/2015
Project No.:	C00342	Figure 11	



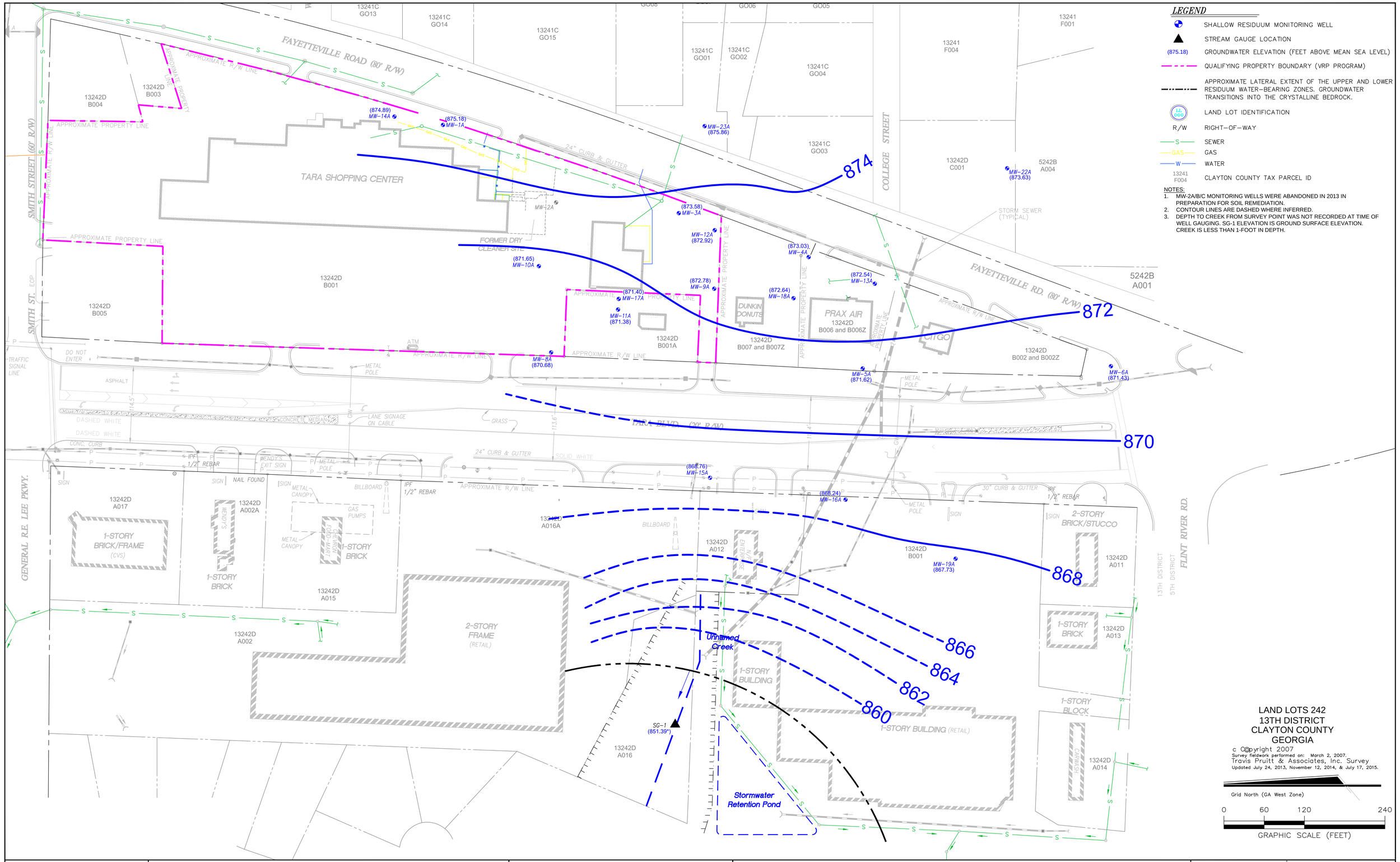
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 12
STRUCTURAL SURFACE CONTOUR: TOP OF BEDROCK

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 12	



LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- STREAM GAUGE LOCATION
- (875.18) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- APPROXIMATE LATERAL EXTENT OF THE UPPER AND LOWER RESIDUUM WATER-BEARING ZONES. GROUNDWATER TRANSITIONS INTO THE CRYSTALLINE BEDROCK.
- LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID

NOTES:
1. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION.
2. CONTOUR LINES ARE DASHED WHERE INFERRED.
3. DEPTH TO CREEK FROM SURVEY POINT WAS NOT RECORDED AT TIME OF WELL GAUGING. SG-1 ELEVATION IS GROUND SURFACE ELEVATION. CREEK IS LESS THAN 1-FOOT IN DEPTH.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

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Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014, & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240
GRAPHIC SCALE (FEET)

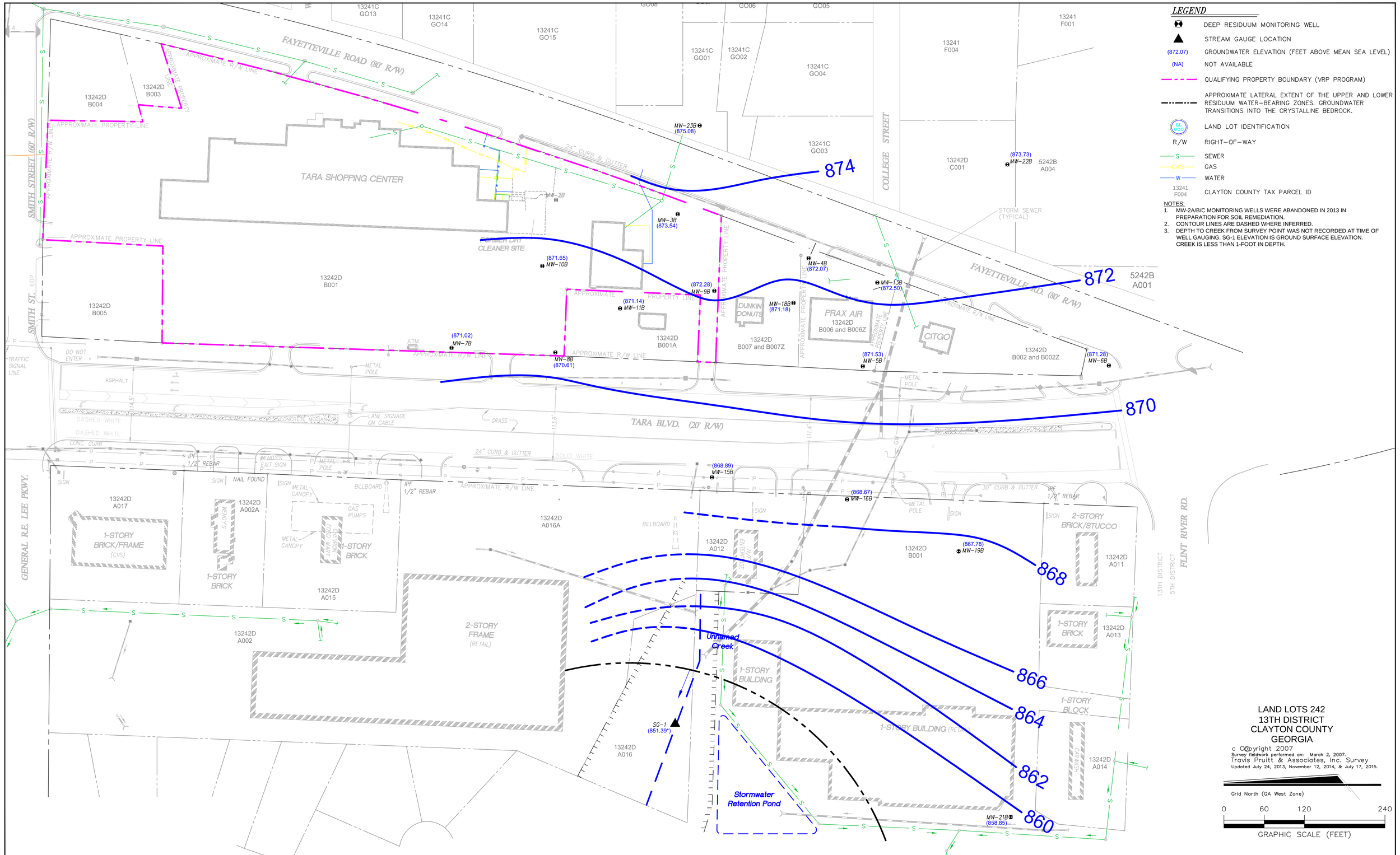
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 13
UPPER RESIDUUM POTENTIOMETRIC SURFACE CONTOUR: JUNE 29, 2015

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 13	



LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

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Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014, & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240
GRAPHIC SCALE (FEET)

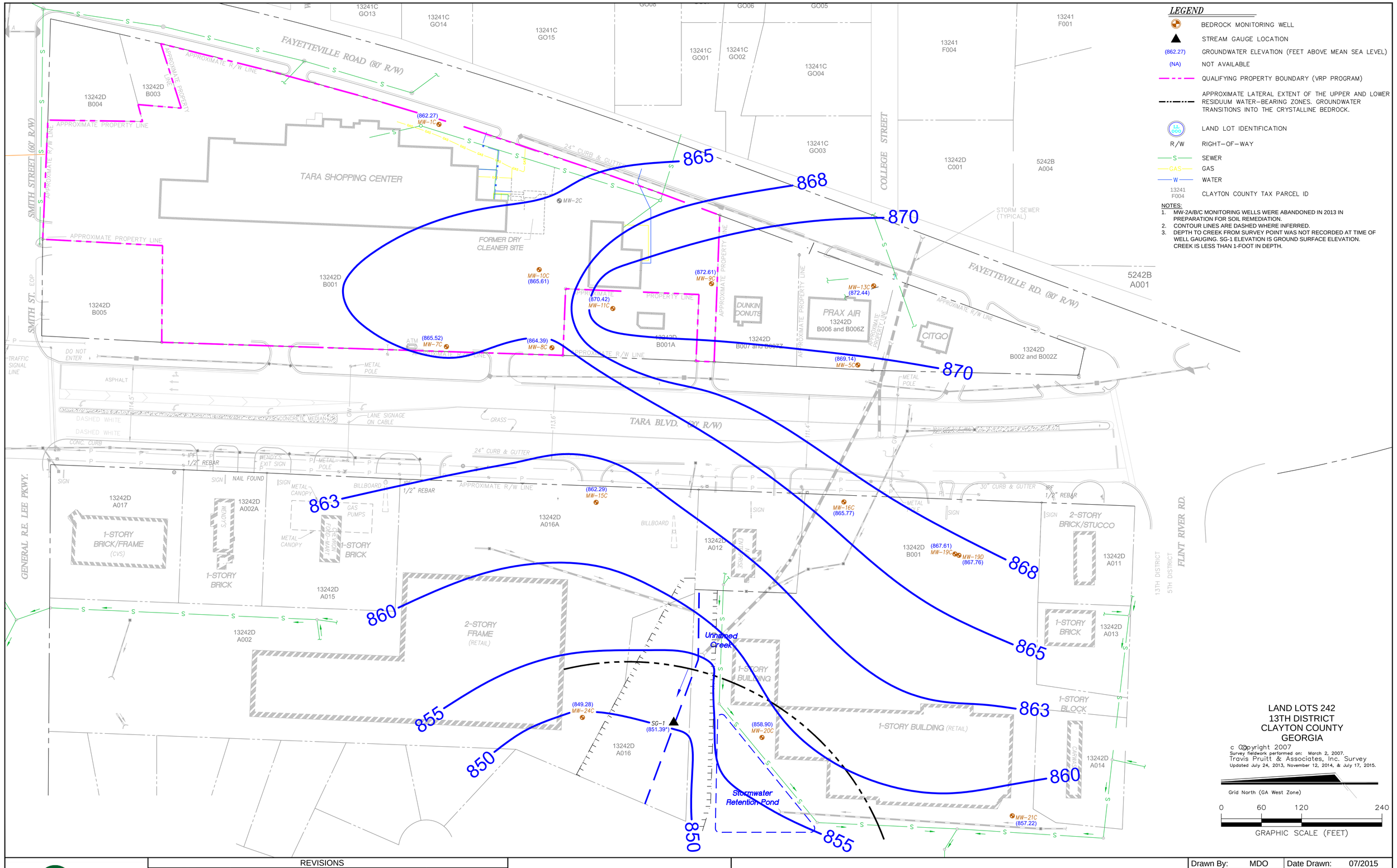
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 14
LOWER RESIDUUM POTENTIOMETRIC SURFACE CONTOUR: JUNE 29, 2015

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 14	



LEGEND

- BEDROCK MONITORING WELL
- STREAM GAUGE LOCATION
- (862.27) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- (NA) NOT AVAILABLE
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- APPROXIMATE LATERAL EXTENT OF THE UPPER AND LOWER RESIDUUM WATER-BEARING ZONES. GROUNDWATER TRANSITIONS INTO THE CRYSTALLINE BEDROCK.
- LAND LOT IDENTIFICATION
- R/W RIGHT-OF-WAY
- S SEWER
- GAS GAS
- W WATER
- 13241 F004 CLAYTON COUNTY TAX PARCEL ID

NOTES:

1. MW-2A/B/C MONITORING WELLS WERE ABANDONED IN 2013 IN PREPARATION FOR SOIL REMEDIATION.
2. CONTOUR LINES ARE DASHED WHERE INFERRED.
3. DEPTH TO CREEK FROM SURVEY POINT WAS NOT RECORDED AT TIME OF WELL GAUGING. SG-1 ELEVATION IS GROUND SURFACE ELEVATION. CREEK IS LESS THAN 1-FOOT IN DEPTH.

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

c Copyright 2007
Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc. Survey
Updated July 24, 2013, November 12, 2014, & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240

GRAPHIC SCALE (FEET)

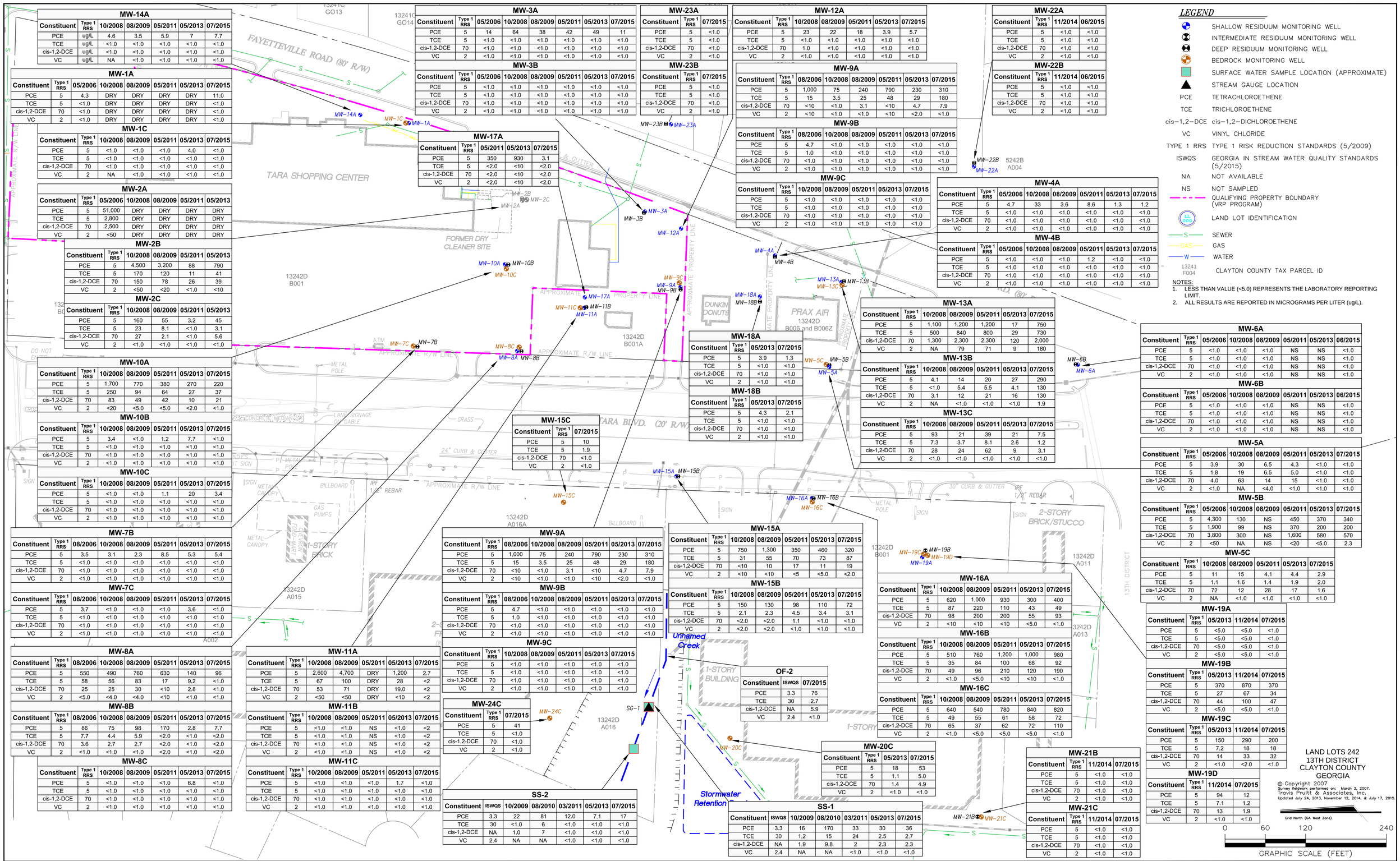
EHS Support consider it done

REVISIONS				
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 15
BEDROCK POTENTIOMETRIC SURFACE CONTOUR: JUNE 29, 2015

Drawn By:	MDO	Date Drawn:	07/2015
Reviewed By:	MSS	Date Reviewed:	07/2015
Scale:	1" = 120'	Plot Date:	07/2015
Project No.:	C00342	Figure 15	



MW-14A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	ug/L	4.6	3.5	5.9	7	7.7
TCE	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0
VC	ug/L	NA	<1.0	<1.0	<1.0	<1.0

MW-1A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4.3	DRY	DRY	DRY	DRY	11.0
TCE	5	<1.0	DRY	DRY	DRY	DRY	<1.0
cis-1,2-DCE	70	<1.0	DRY	DRY	DRY	DRY	<1.0
VC	2	<1.0	DRY	DRY	DRY	DRY	<1.0

MW-1C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	4.0	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	NA	<1.0	<1.0	<1.0	<1.0

MW-2A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013
PCE	5	51,000	DRY	DRY	DRY	DRY
TCE	5	2,800	DRY	DRY	DRY	DRY
cis-1,2-DCE	70	2,500	DRY	DRY	DRY	DRY
VC	2	<50	DRY	DRY	DRY	DRY

MW-2B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013
PCE	5	4,500	3,200	88	790
TCE	5	170	120	11	41
cis-1,2-DCE	70	150	78	26	39
VC	2	<50	<20	<1.0	<10

MW-2C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013
PCE	5	160	55	3.2	45
TCE	5	23	8.1	<1.0	3.1
cis-1,2-DCE	70	27	2.1	<1.0	5.6
VC	2	<1.0	<1.0	<1.0	<1.0

MW-10A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	1,700	770	380	270	220
TCE	5	250	94	64	27	37
cis-1,2-DCE	70	83	49	42	10	21
VC	2	<20	<5.0	<5.0	<2.0	<1.0

MW-10B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	3.4	<1.0	1.2	7.7	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-10C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	1.1	20	3.4
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-7B

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	3.5	3.1	2.3	8.5	5.3	5.4
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-7C

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	3.7	<1.0	<1.0	<1.0	3.6	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-8A

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	550	490	760	630	140	96
TCE	5	58	56	83	17	9.2	<1.0
cis-1,2-DCE	70	25	25	30	<10	2.8	<1.0
VC	2	<5.0	<4.0	<4.0	<10	<1.0	<1.0

MW-8B

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	86	75	98	170	2.8	7.7
TCE	5	7.7	4.4	5.9	<2.0	<1.0	<2.0
cis-1,2-DCE	70	3.6	2.7	2.7	<2.0	<1.0	<2.0
VC	2	<1.0	<1.0	<1.0	<2.0	<1.0	<2.0

MW-8C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	6.8	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-3A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	14	64	38	42	49	11
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-3B

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-17A

Constituent	Type 1 RRS	05/2011	05/2013	07/2015
PCE	5	350	930	3.1
TCE	5	<2.0	<10	<2.0
cis-1,2-DCE	70	<2.0	<10	<2.0
VC	2	<2.0	<10	<2.0

MW-15C

Constituent	Type 1 RRS	07/2015
PCE	5	10
TCE	5	1.9
cis-1,2-DCE	70	<1.0
VC	2	<1.0

MW-18A

Constituent	Type 1 RRS	05/2013	07/2015
PCE	5	3.9	1.3
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-18B

Constituent	Type 1 RRS	05/2013	07/2015
PCE	5	4.3	2.1
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-23A

Constituent	Type 1 RRS	07/2015
PCE	5	<1.0
TCE	5	<1.0
cis-1,2-DCE	70	<1.0
VC	2	<1.0

MW-23B

Constituent	Type 1 RRS	07/2015
PCE	5	<1.0
TCE	5	<1.0
cis-1,2-DCE	70	<1.0
VC	2	<1.0

MW-12A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	23	22	18	3.9	5.7
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-9A

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	1,000	75	240	790	230	310
TCE	5	15	3.5	25	48	29	180
cis-1,2-DCE	70	<10	<1.0	3.1	<10	4.7	7.9
VC	2	<10	<1.0	<1.0	<10	<2.0	<1.0

MW-9B

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4.7	<1.0	<1.0	<1.0	<1.0	<1.0
TCE	5	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-9C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-11A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	2,600	4,700	DRY	1,200	2.7
TCE	5	67	100	DRY	28	<2
cis-1,2-DCE	70	53	71	DRY	19.0	<2
VC	2	<50	<50	DRY	<10	<2

MW-11B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	NS	<1.0	<2
TCE	5	<1.0	<1.0	NS	<1.0	<2
cis-1,2-DCE	70	<1.0	<1.0	NS	<1.0	<2
VC	2	<1.0	<1.0	NS	<1.0	<2

MW-11C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	1.7	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-24C

Constituent	Type 1 RRS	07/2015
PCE	5	41
TCE	5	<1.0
cis-1,2-DCE	70	<1.0
VC	2	<1.0

SS-2

Constituent	ISWQS	10/2009	08/2010	03/2011	05/2013	07/2015
PCE	3.3	22	81	12.0	7.1	17
TCE	30	<1.0	6	<1.0	<1.0	<1.0
cis-1,2-DCE	NA	1.0	7	<1.0	<1.0	<1.0
VC	2.4	NA	NA	<1.0	<1.0	<1.0

OF-2

Constituent	ISWQS	07/2015
PCE	3.3	76
TCE	30	2.7
cis-1,2-DCE	NA	5.9
VC	2.4	<1.0

MW-15A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	750	1,300	350	460	320
TCE	5	31	55	70	73	87
cis-1,2-DCE	70	<10	10	17	11	19
VC	2	<10	<10	<5	<5.0	<2.0

MW-15B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	150	130	98	110	72
TCE	5	2.1	2.3	4.5	3.4	3.1
cis-1,2-DCE	70	<2.0	<2.0	1.1	<1.0	<1.0
VC	2	<2.0	<2.0	<1.0	<1.0	<1.0

MW-20C

Constituent	Type 1 RRS	05/2013	07/2015
PCE	5	18	53
TCE	5	1.1	5.0
cis-1,2-DCE	70	1.4	4.9
VC	2	<1.0	<1.0

SS-1

Constituent	ISWQS	10/2009	08/2010	03/2011	05/2013	07/2015
PCE	3.3	16	170	33	30	36
TCE	30	1.2	15	24	2.5	2.7
cis-1,2-DCE	NA	1.9	9.8	2	2.3	2.3
VC	2.4	NA	NA	<1.0	<1.0	<1.0

MW-22A

Constituent	Type 1 RRS	11/2014	06/2015
PCE	5	<1.0	<1.0
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-22B

Constituent	Type 1 RRS	11/2014	06/2015
PCE	5	<1.0	<1.0
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-9A

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	1,000	75	240	790	230	310
TCE	5	15	3.5	25	48	29	180
cis-1,2-DCE	70	<10	<1.0	3.1	<10	4.7	7.9
VC	2	<10	<1.0	<1.0	<10	<2.0	<1.0

MW-9B

Constituent	Type 1 RRS	08/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4.7	<1.0	<1.0	<1.0	<1.0	<1.0
TCE	5	1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-9C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-4A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4.7	33	3.6	8.6	1.3	1.2
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-4B

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	<1.0	<1.0	<1.0	1.2	<1.0	<1.0
TCE	5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0

MW-13A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	1,100	1,200	1,200	17	750
TCE	5	500	840	800	29	730
cis-1,2-DCE	70	1,300	2,300	2,300	120	2,000
VC	2	NA	79	71	9	180

MW-13B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4.1	14	20	27	290
TCE	5	<1.0	5.4	5.5	4.1	130
cis-1,2-DCE	70	3.1	12	21	16	130
VC	2	NA	<1.0	<1.0	<1.0	1.9

MW-13C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	93	21	39	21	7.5
TCE	5	7.3	3.7	8.1	2.6	1.2
cis-1,2-DCE	70	28	24	62	9	3.1
VC	2	<1.0	<1.0	<1.0	<1.0	<1.0

MW-16A

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	620	1,000	930	300	400
TCE	5	87	220	110	43	49
cis-1,2-DCE	70	98	200	200	55	93
VC	2	<10	<10	<10	<5.0	<1.0

MW-16B

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	510	760	1,200	1,000	980
TCE	5	35	84	100	68	92
cis-1,2-DCE	70	49	96	210	120	190
VC	2	<1.0	<5.0	<10	<10	<1.0

MW-16C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	640	540	780	840	820
TCE	5	49	55	61	58	72
cis-1,2-DCE	70	65	37	62	72	110
VC	2	<1.0	<5.0	<5.0	<5.0	<1.0

MW-21B

Constituent	Type 1 RRS	11/2014	07/2015
PCE	5	<1.0	<1.0
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-21C

Constituent	Type 1 RRS	11/2014	07/2015
PCE	5	<1.0	<1.0
TCE	5	<1.0	<1.0
cis-1,2-DCE	70	<1.0	<1.0
VC	2	<1.0	<1.0

MW-6A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	06/2015
PCE	5	<1.0	<1.0	<1.0	NS	NS	<1.0
TCE	5	<1.0	<1.0	<1.0	NS	NS	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	NS	NS	<1.0
VC	2	<1.0	<1.0	<1.0	NS	NS	<1.0

MW-6B

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	06/2015
PCE	5	<1.0	<1.0	<1.0	NS	NS	<1.0
TCE	5	<1.0	<1.0	<1.0	NS	NS	<1.0
cis-1,2-DCE	70	<1.0	<1.0	<1.0	NS	NS	<1.0
VC	2	<1.0	<1.0	<1.0	NS	NS	<1.0

MW-5A

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	3.9	30	6.5	4.3	<1.0	<1.0
TCE	5	1.8	19	6.5	5.0	<1.0	<1.0
cis-1,2-DCE	70	4.0	63	14	15	<1.0	<1.0
VC	2	<1.0	NA	<4.0	<1.0	<1.0	<1.0

MW-5B

Constituent	Type 1 RRS	05/2006	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	4,300	130	NS	450	370	340
TCE	5	1,900	99	NS	370	200	200
cis-1,2-DCE	70	3,800	300	NS	1,600	580	570
VC	2	<50	NA	NS	<20	<5.0	2.3

MW-5C

Constituent	Type 1 RRS	10/2008	08/2009	05/2011	05/2013	07/2015
PCE	5	11	15	4.1	4.4	2.9
TCE	5	1.1	1.6	1.4	1.9	2.0
cis-1,2-DCE	70	72	12	28	17	1.6
VC	2	NA	<1.0	<1.0	<1.0	<1.0

MW-19A

Constituent	Type 1 RRS	05/2013	11/2014	07/2015
PCE	5	<5.0	<5.0	<1.0
TCE	5	<5.0	<5.0	<1.0
cis-1,2-DCE	70	<5.0	<5.0	<1.0
VC	2	<5.0	<5.0	<1.0

MW-19B

Constituent	Type 1 RRS	05/2013	11/2014	07/2015
PCE	5	370	870	370
TCE	5	27	67	34
cis-1,2-DCE	70	44	100	47
VC	2	<5.0	<5.0	<1.0

MW-19C

Constituent	Type 1 RRS	05/2013	11/2014	07/2015
PCE	5	150	290	200
TCE	5	7.2	18	18
cis-1,2-DCE	70	14	33	32
VC	2	<1.0	<2.0	<1.0

MW-19D

Constituent	Type 1 RRS	11/2014	07/2015
PCE	5	94	12
TCE	5	7.1	1.2
cis-1,2-DCE	70	13	1.9
VC	2	<1.0	<1.0

LEGEND

- SHALLOW RESIDUUM MONITORING WELL
- INTERMEDIATE RESIDUUM MONITORING WELL
- DEEP RESIDUUM MONITORING WELL
- BEDROCK MONITORING WELL
- SURFACE WATER SAMPLE LOCATION (APPROXIMATE)
- STREAM GAUGE LOCATION
- PCE — TETRACHLOROETHENE
- TCE — TRICHLOROETHENE
- cis-1,2-DCE — cis-1,2-DICHLOROETHENE
- VC — VINYL CHLORIDE
- TYPE 1 RRS — TYPE 1 RISK REDUCTION STANDARDS (5/2009)
- ISWQS — GEORGIA IN STREAM WATER QUALITY STANDARDS (5/2015)
- NA — NOT AVAILABLE
- NS — NOT SAMPLED
- QUALIFYING PROPERTY BOUNDARY (VRP PROGRAM)
- 13, 256 — LAND LOT IDENTIFICATION
- S — SEWER
- GAS — GAS
- W — WATER
- 13241 F004 — CLAYTON COUNTY TAX PARCEL ID

NOTES:
1. LESS THAN VALUE (<5.0) REPRESENTS THE LABORATORY REPORTING LIMIT.
2. ALL RESULTS ARE REPORTED IN MICROGRAMS PER LITER (ug/L).

LAND LOTS 242
13TH DISTRICT
CLAYTON COUNTY
GEORGIA

© Copyright 2007
Survey fieldwork performed on: March 2, 2007.
Travis Pruitt & Associates, Inc.
Updated July 24, 2013, November 12, 2014, & July 17, 2015.

Grid North (GA West Zone)

0 60 120 240
GRAPHIC SCALE (FEET)

EHS Support consider it done

REVISIONS

Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:
Rev.		By:	Disc.:	Date:

TARA SHOPPING CENTER
8564 Tara Boulevard, Jonesboro, Clayton County, GA.
Tax Parcel ID 13242D B001; HSI Site No. 10798

FIGURE 16
HISTORICAL GROUNDWATER ANALYTICAL RESULTS (2006 - 2015)

Drawn By:	MDO	Date Drawn:	08/2015
Reviewed By:	MSS	Date Reviewed:	08/2015
Scale:	1" = 120'	Plot Date:	08/2015
Project No.:	C00342	Figure 16	

Hydrogeologic Unit/ Hydrologic Boundary	Principal Lithology	Unit Thickness	Comments
Residuum (Upper/Lower) Piedmont Province	Saprolite • primarily clays and silts with minor sand 	0 – Approx. 70 feet Varying Thickness and Saturated Thickness	• Unconfined water-bearing zone • Absent/discontinuous (pinches out) west/downgradient of Tara Boulevard near the unnamed creek • Saturated thickness below the Site >20 feet below grade • Increased saturated thickness east/upgradient and south/side gradient of the Site • Not a drinking water resource within the Study Area.
Bedrock Piedmont Crystalline-rock aquifer system	 Granitic gneiss also referenced to as: • granite and amphibolite • biotite gneiss • non-porphyritic granite	>100+ feet Varying depth below grade Saturated >100 feet	• Present at depth beneath the Site and south of the Site (>50 feet or ~830 feet above mean sea level) • Expresses/Outcrops along the banks of the unnamed creek west of the Site (~870 feet above mean sea level). • Groundwater under unconfined conditions • Not a drinking water resource within the Study Area. Potable water in Clayton County is provided by the Clayton County Water Authority utilizing surface water reservoirs
Unnamed Creek /Third Order Stream	Shallow, low velocity stream incised into outcropping granitic gneiss, with fines and organic material. 	< 1 foot depth	• Incised into outcropping bedrock • Surface flow contributed by natural storm water runoff, culvert stormwater, and groundwater baseflow • Abundant debris/trash/litter • Discharge to tributary of Flint River watershed

- The "Site" is defined as the Tara Shopping Center (former Dry Cleaner property) at 8564 Tara Boulevard, Jonesboro, GA.
- The "Study Area" is defined as the area surrounding the Site – Generally, the eastern extent is "Fayetteville Road". Southern extent is the intersection of Fayetteville Road and Tara Boulevard (at Flint River Road) and Flint River Road. Northern extent is the general vicinity near the property line of the Tara Shopping Center towards Smith Street. Western extent is the unnamed creek and its headwater region.

APPENDIX A

Tabulated Professional Hours

APPENDIX A
Tabulated Summary of Professional Engineer and Geologist Time (Period December 1, 2014 through July 31, 2015)
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA
Voluntary Remediation Program (HSI 10798)

Professional Service	Date	Hours	Description
Kristin VanLandingham, PE	12/3/2014	1	Meeting with project team to review current status and upcoming work.
	12/17/2014	1	Meeting with GEPD.
	12/22/2014	1	Reviewed progress report and sent seal page
	1/13/2015	2	Pulled together information for preparation of MNA work plan.
	1/20/2015	4	Review of historical data, discussed efficiency of an MNA approach for GW at the Site with technical team.
	3/6/2015	1	Call with project team to discuss MNA evaluation, GW alternatives and path forward for remediation of GW and SW.
	4/24/2015	1	Call with project team to discuss MNA approach.
	5/11/2015	2	Review of environmental covenant document and monitoring and maintenance plan.
	5/15/2015	1	Meeting with client to discuss plan for MNA sampling, stream, and offsite property access.
	6/12/2015	1	Meeting with project team to discuss Environmental Covenant notifications.
Jonathan Waddell, PE	12/3/2014	1	Meeting with project team to review current status and upcoming work.
	1/12/2015	1	Preparation for well development, coordination with contractors.
	1/14/2015	11.5	Mob to site, performed well inventory and bolt replacements and well repairs.
	4/16/2015	1	Meeting with project team.
	4/17/2015	1.5	Preparation of list of analytes to support MNA and evaluation of abiotic degradation pathways.
	4/24/2015	3.5	Call with project team to discuss MNA approach, discussions with Microseeps, and prep of MNA sample collection matrix.
	4/27/2015	1	Prepared MNA scope of work.
	4/29/2015	0.5	Communications with labs for analytical quotes.
	5/1/2015	3	Meeting with Stayrook and Goulding, preparation of parameter and rationale tables.
	5/4/2015	2	Update to MNA sample collection table.
	5/5/2015	4	Mob to site, collection of pictures of Garcia property, meeting with Roberto Garcia, mob to office.
	5/7/2015	1	Edits to MNA tables in memo.
	5/8/2015	3	Preparation of draft Sampling and Analysis Plan for MNA.
	5/11/2015	1.5	Field planning for drilling activities, review of stream engineering controls and response.
	5/14/2015	2	Meetings with project team members regarding MNA and stream, preparation for meeting with Ashland.
	5/15/2015	2.5	Stream path forward discussion, review of edits to memo, communications with Ashland.
	5/18/2015	5.5	Mob to site, met with Frank Connor, write up of results, mob to home, RHD coordination.
	5/19/2015	0.5	Meetings with project team members regarding MNA work plan.
	5/20/2015	0.5	Review of MNA checklist and SERDP/ESTCP MNA guidance.
	5/21/2015	6	Mob to site, visit Hoops & Fitness property, prep for meeting with GEPA, conducted utility mark out and meeting with GEPA, mob back to home.
	5/26/2015	2	Project team call, call with Roberto Garcia, MNA work plan correspondence.
	5/27/2015	1	Communications with Cascade Drilling, coordination.
	6/3/2015	2.5	Preparation meeting for drilling activities, review of scope of work.
	6/5/2015	1.5	Project discussions and follow-up, MNA work plan discussions.

APPENDIX A
Tabulated Summary of Professional Engineer and Geologist Time (Period December 1, 2014 through July 31, 2015)
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA
Voluntary Remediation Program (HSI 10798)

Professional Service	Date	Hours	Description
Jonathan Waddell, PE	6/8/2015	4	Mob to site, meeting with Peterson, mob home.
	6/23/2015	2.5	Review of manifest and prep for drum pick up, MNA scope review, communications with Antea.
	6/24/2015	4	Mob to site, inventory and labeling of wells, meeting with Nexeo, oversite of drum removal, mob home, coordination of MNA sampling event.
	6/29/2015	2	Coordination of MNA sampling event.
	7/9/2015	0.5	Meeting with Stayrook, MNA tasks.
	7/10/2015	0.5	Meeting with Antea.
	7/15/2015	0.5	Preparation and scheduling for surveying.
	7/16/2015	0.5	Meeting with Stayrook, preparation.
	7/17/2015	9.5	Mob to site, identified creek sampling points with Antea, surveying oversite, mob home.
	7/20/2015	1	Review of stream flow measurements, scanning of field notes, photo uploads.
Pat Peterson PG	12/3/2014	1.5	Meeting with project team to discuss Environmental Covenant activities.
	12/17/2014	1.5	Meeting with Stayrook regarding upcoming field work.
	1/2/2015	4	Reviewed cost with Antea, management of well repair and development activies.
	1/5/2015	1	Reviewed cost with Antea, management of well repair and development activies.
	1/6/2015	3	Reviewed cost with Antea, management of well repair and development activies.
	1/7/2015	6	Review of existing data, preparation of MNA work plan. Reviewed cost with Antea, management of well repair and development activies.
	1/8/2015	2	Review of costs with Antea, manage well repair and development activities.
	1/9/2015	1	Reviewed cost with Antea, management of well repair and development activies.
	1/14/2015	1	Reviewed cost with Antea, management of well repair and development activies.
	1/16/2015	2	Set up work order with Antea for groundwater monitoring.
	1/19/2015	0.5	Prepared for semi-annual monitoring.
	1/20/2015	1	Oversite of Antea semi-annual sampling.
	1/23/2015	1	Management of field sampling, discussion with Antea regarding work performed.
	2/3/2015	0.5	Setup drum pickup with Antea and Nexeo.
	2/4/2015	1.5	Managed drum removal activities, reviewed access agreements to provide examples to Hoops and Fitness owner.
	2/23/2015	0.5	Reviewed analytical data to evaluate MNA as a potential remedial options.
	2/24/2015	1.5	Reviewed analytical data to evaluate MNA as a potential remedial options.
	2/25/2015	0.5	Reviewed MNA and EC comments from EPD.
	3/5/2015	0.5	Call with Stayrook to discuss MNA strategy.
	3/6/2015	2.5	Reviewed groundwater data to evaluate MNA as a remedial option, meeting with project team to discuss other remedial options and elimination of current exposure pathways to the sewer line.
	3/13/2015	0.5	Call with Stayrook to discuss MNA strategy to address groundwater to surface water pathway.
	4/16/2015	1.5	Meeting with project team to discuss MNA, well installation and upcoming groundwater sampling event. Review of groundwater data.

APPENDIX A
Tabulated Summary of Professional Engineer and Geologist Time (Period December 1, 2014 through July 31, 2015)
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA
Voluntary Remediation Program (HSI 10798)

Professional Service	Date	Hours	Description
Pat Peterson PG	4/24/2015	1	Meeting with project team to discuss MNA work plan.
	5/11/2015	1	Review of MNA work plan sampling strategy.
	5/13/2015	0.5	Preparation of short summary review of groundwater to surface water potential pathways for internal review.
	5/14/2015	1.5	Prepareation of MNA monitoring strategy and internal discussions with project team.
	5/15/2015	5	Review of MNA documents, discussions with Ashland and project team.
	5/19/2015	2	Review of MNA scope of work.
	5/26/2015	1	Meeting with project team to discuss monitoring well installation.
	5/27/2015	1	Meeting with project team to discuss access to offsite drilling locations.
	5/29/2015	2	Meeting with project team to discuss well installation, schedule and travel.
	6/8/2015	13.5	Monitoring Well Installation Oversight
	6/9/2015	12.5	Monitoring Well Installation Oversight
	6/10/2015	14	Monitoring Well Installation Oversight
	6/11/2015	11.5	Monitoring Well Installation Oversight
	6/12/2015	13.5	Monitoring Well Installation Oversight
	6/13/2015	7	Monitoring Well Installation Oversight
	6/16/2015	2	Post Monitoring Well Installation download
	6/22/2015	4	Post Monitoring Well Installation download
	6/24/2015	0.5	Review of data regarding IDW.
	6/26/2015	1	Reviewed UEC documentation that were sent to EPD and Tara Shopping Center.
	6/29/2015	0.5	Review of groundwater sample data from lab.
	7/2/2015	3.5	Prepared boring logs and well construction diagrams for MW-15C, MW-14C, MW-23A and MW-23B.
	7/8/2015	2	Meeting with Stayrook regarding project and deliverables.
	7/15/2015	5	Prepare well installation for semi-annual progress report.
	7/17/2015	2	Meeting with Stayrook regarding preparation of semi-annual progress report tasks. Began preparation of off-site monitoring well investigation summary for report.
	7/24/2015	6	Prepared top of bedrock figure and semi-annual report.
	7/27/2015	6	Revised bedrock contour map, prepared sections fo semi-annual report.
	7/28/2015	7	Prepared revised to of bedrock contour map, geologic cross section D-D', revised existing corss section, prepared eelineation and MNA sections of progress report.
	7/29/2015	4.5	Completed MNA update for progress report.
	7/30/2015	2	Reviewed VISL calculator to evaluate vapor intrusion pathway at site.
	7/31/2015	1	Prepared progress report.

APPENDIX B

Groundwater Sampling Logs

GROUNDWATER SAMPLING LOGS

POST REMEDIATION PERFORMANCE MONITORING WELLS (January 2015)

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-3A	DATE:	1-22-2015

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE~~ OR BAILER:
2 in		21.51	Geo Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0 + (.0024 liters/foot X 23.33 feet) + .4 liters DIA .06 0.46

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED ~~(Gal.)~~:	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1038	1115	5.184	23.33	23.33

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters/l.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1040	0.28	0.28	0.14	21.60	4.32	16.43	0.059	3.91		210.2
/	1045	0.7	0.98		21.59	4.29	16.32	0.056	3.84		207.0
/	1050		1.68		21.58	4.33	15.78	0.051	3.95		206.2
/	1055		2.38		21.61	4.25	16.38	0.051	3.65		210.2
/	1100		3.08		21.61	4.29	16.97	0.045	3.39		208.2
/	1105		3.78		21.61	4.30	17.06	0.044	3.36		206.7
/	1110		4.6		21.61	4.31	17.03	0.043	3.33		206.1
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"=0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kincaid		1111	1114

FIELD DECONTAMINATION:	DUPLICATE:
Y (N)	Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCL	8260 B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~Turbidity:~~	~~<10 NTU~~	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	3B	DATE:	4-21-15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE OR BAILER:~~
2 in		21.70	Geo pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0 + (.0024 liters/foot X 38.27 feet) + .4 liters 0.50 L

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED ~~(Gal.)~~ (L)	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1140	1215	4.9	~~38.27~~	38.27

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1145	0.7	0.7	0.14	22.81	4.89	17.58	0.105	5.65		131.8
/	1150	↓	1.4	↓	22.81	4.92	17.58	0.103	4.72		132.3
/	1155		2.1		22.81	4.92	17.58	0.102	4.66		132.9
/	1200		2.8		22.81	4.92	17.54	0.102	4.64		133.1
/	1205		3.5		22.82	4.92	17.54	0.102	4.61		133.2
/	1210	↓	4.2	↓	22.82	4.92	17.54	0.102	4.58		133.5
/											
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kincaid		1210	1214

FIELD DECONTAMINATION: (Y) N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCl	8260 B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~**Turbidity:**~~	~~<10 NTU~~	**ORP:**	± 10 mV
Temp.:	± 0.5° %	**Dissolved Oxygen:**	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-8A	DATE:	1-22-15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE OR BAILER:~~
2 in		26.82	GeoPump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0 + (.0024 liters/foot X 29.31 feet) + .4 liters 0.47

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~Gal.~~):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1140	1211	4.65 L	29.31	29.31

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters/.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1142	0.3	0.3	0.15	26.86	4.37	19.38	0.069	2.89		241.4
/	1147	0.75	1.05		26.84	5.23	19.59	0.068	2.82		186.3
/	1152		1.8		26.82	5.24	19.34	0.067	2.77		190.4
/	1157		2.55		26.82	5.13	19.54	0.067	2.54		186.0
/	1202		3.3		26.82	5.14	19.59	0.066	2.56		185.9
/	1207	↓	4.0	↓	26.83	5.13	19.57	0.064	2.51		185.8
/											
/											

Inside Tubing DIA CAPACITY (liters/ Ft): 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kinraid		1207	1210

FIELD DECONTAMINATION: (Y) N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCL	8260 B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~**Turbidity:** <10 NTU~~

Temp.: ± 0.5° %

pH: ± 0.2 units

Specific Conductance: ± 5%

ORP: ± 10 mV

Dissolved Oxygen: ± 1 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-8B	DATE:	1-21-2015

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to	feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE OR BAILER~~
2 in	.0024		26.73	Sample pump

EQUIPMENT VOLUME PURGE: **1 EQUIPMENT VOL.** = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .2 + (~~.170~~ DK liters/foot X 41.35 feet) + .4 liters ~~7.7~~ DK 0.7

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1414	1454	4.4	41.8	41.85

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Litersl.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1423	0.99	0.99	0.11	26.75	5.55	21.11	0.123	4.95		115.3
/	1428	0.55	1.54	0.11	26.75	5.45	20.97	0.123	3.92		127.7
/	1433	↓	2.09	0.11	26.76	5.20	21.20	0.124	2.55		201.7
/	1438		2.64	0.11	26.76	5.19	21.00	0.123	2.40		249.4
/	1442		3.19	0.11	26.77	5.21	20.98	0.123	2.36		255.2
/	1448	↓	~~4.74~~ 3.74	0.11 ✓	26.77	5.22	20.88	0.124	2.32		259.1
/											
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kincaid		1448	1452

FIELD DECONTAMINATION: (Y) N	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 mL	HCL	8260 B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

long pump to 1st reading pump not operating

~~Turbidity:~~	~~<10 NTU~~	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-8C	DATE:	1/21/15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	70 feet to 85 feet	31.68	bladder pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 60.7 feet) + .4 liters .7

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1412	1445	6.7	60.7	60.7

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters.l.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1415	.7	.7	.2	31.79	6.25	20.42	0.620	6.38		105.0
/	1420	1	1.7	.2	31.83	5.93	20.31	0.615	2.09		104.0
/	1425	1	2.7	.2	31.97	5.80	20.21	0.611	1.55		108.1
/	1430	1	3.7	.2	32.12	5.60	20.00	0.619	1.48		111.9
/	1435	1	4.7	.2	32.15	5.50	19.82	0.624	1.25		113.6
/	1440	1	5.7	.2	32.15	5.44	19.80	0.623	1.20		113.2
/	1445	1	6.7	.2	32.15	5.38	19.83	0.620	0.98		113.8
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eddie Jester / Antea Group	Eddie L Jester	1446	1448

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCl	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME: Alterman Jonesboro	SITE LOCATION: Alterman/ Tera Shopping Center
WELL NO: MW-9A	DATE: 1/22/14

PURGING DATA

WELL DIAMETER 2	WELL SCREEN INTERVAL DEPTH: 22.5 feet to 32.5 feet	STATIC DEPTH TO WATER (feet): 22.46	PURGE PUMP/TUBING TYPE OR BAILER:

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 26.35 feet) + .4 liters .7

PURGING INITIATED AT: 1414	PURGING ENDED AT: 1448	TOTAL VOLUME PURGED (Gal.): 6.7	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET) 26.35	FINAL PUMP OR TUBING DEPTH IN WELL (FEET) 26.35

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters/.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1418	.7	.7	.2	21.58	4.60	18.63	0.066	0.46		128.2
/	1423	1	1.7	.2	21.55	4.56	18.65	0.059	0.33		173.0
/	1428	1	2.7	.2	21.61	4.63	18.62	0.054	0.32		185.7
/	1437	1	3.7	.2	21.60	4.66	18.48	0.048	0.31		196.1
/	1438	1	4.7	.2	21.61	4.63	18.23	0.047	0.28		203.8
/	1443	1	5.7	.2	21.62	4.58	18.10	0.047	0.27		207.3
/	1448	1	6.7	.2	21.62	4.53	17.91	0.047	0.39		210.1
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: Eddie Jackson/Antea	SAMPLER(S) SIGNATURES: Eddie Jackson	SAMPLING INITIATED AT: 1450	SAMPLING ENDED AT: 1453
FIELD DECONTAMINATION: Y N	DUPLICATE: Y (N)		

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-9B	DATE:	1-21-2015

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING~~ TYPE OR BAILER:
2 in		22.31	Geo pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0 + (.024 liters/foot X 42.88 feet) + .4 liters 0.50 L

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1017	1052	5.25	42.88	42.88

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters/L.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1022	0.75	0.75	0.15	22.48	6.09	17.73	0.164	10.13		115.1
/	1027		1.5		22.49	6.25	17.96	0.158	10.26		107.9
/	1032		2.25		22.49	6.31	18.16	0.156	9.85		102.8
/	1037		3		22.49	6.30	18.25	0.157	4.96		103.9
/	1042		3.75		22.49	6.29	18.37	0.159	4.21		104.0
/	1047		4.4		22.49	6.28	18.42	0.157	4.20		103.8
/											
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kincaid		1048	1050

FIELD DECONTAMINATION: Y N DUPLICATE: Y N

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~Turbidity:~~	<10 NTU	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-9C	DATE:	1/21/15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	85 feet to 100 feet	22.39	bladder pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 61.01 feet) + .4 liters .80

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1031	1104	15.5	61.01	61.01

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1033	.8	.8	.5	22.43	6.11	16.14	0.251	2.58		76.4
/	1038	2.5	3.3	.5	22.47	6.13	15.74	0.244	2.62		74.5
/	1043	2.5	5.8	.5	22.87	6.44	15 57	0.223	1.84		66.2
/	1048	2.5	8.3	.5	23.27	6.65	15 38	0.221	1.09		54.0
/	1053	2.5	10.8	.5	23.31	6.61	1534	0.221	1.12		58.3
/	1058	2.5	13.3	.5	23.34	6.65	15 31	0.221	1.12		60.3
/	1104	2.5	15.8	.5	23.54	6.63	15 28	0.219	1.05		61.6
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eddie Jordan / Antea Group	Eddie Jordan	1106	1108

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	**ORP:**	± 10 mV
Temp.:	± 0.5° %	**Dissolved Oxygen:**	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-10A	DATE:	1/22/15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	27 feet to 37 feet	27.54	Disdelel pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.024 liters/foot X 32.49 feet) + .4 liters 1.14

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1501	1538	7.4	32.49	32.49

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters.L)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1508	1.4	1.4	.2		4.97	21.96	0.064	2.80		252.8
/	1513	1	2.4	.2		4.97	21.90	0.064	2.73		205.7
/	1518	1	3.4	.2		4.93	21.90	0.060	2.74		208.8
/	1523	1	4.4	.2		4.82	21.89	0.064	2.70		213.3
/	1528	1	5.4	.2		4.80	21.87	0.063	2.70		214.8
/	1533	1	6.4	.2		4.80	21.89	0.062	2.70		214.6
/	1538	1	7.4	.2		4.81	21.82	0.063	2.69		212.7
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eckelz, Jordan / Antea Group	Eckelz Jordan	1539	1541

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	HCL	8260 B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-103	DATE:	1-22-15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE OR BAILER:~~
2 in		27.36	Geopump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0 + (0.0024 liters/foot X 33.57 feet) + .4 liters 0.48

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED ~~(Gal)~~:	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
0923	1000	5.5L	33.57	33.57

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Litersl.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	0924	0.15	0.15	0.15	27.42	11.07	20.64	0.433	3.34		143.0
/	0929	0.75	0.9	↓	27.42	10.41	21.01	0.231	3.07		135.4
/	0934	↓	1.65		27.42	7.85	21.17	0.175	3.05		124.9
/	0939		2.4		27.41	6.47	21.16	0.168	3.09		158.0
/	0944		3.15		27.41	6.10	21.19	0.160	2.99		148.8
/	0949	↓	3.8		27.41	5.99	21.26	0.157	2.94		171.8
/	0954		4.55	↓	27.40	5.95	21.18	0.157	2.90		171.8
/	0959										

Inside Tubing DIA CAPACITY (liters/ Ft); (1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER~~(S)~~ SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kinard		0955	0959

FIELD DECONTAMINATION: (Y) N DUPLICATE: (Y)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCL	8260 B

REMARKS: Dup *

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~Turbidity:~~	~~<10 NTU~~	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-10C	DATE:	1/22/15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	75 feet to 90 feet	31.89	

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 59.97 feet) + .4 liters .7

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
0910	0943	6.7	59.97	59.97

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	0913	.7	.7	.2	31.93	8.13	16.06	0.310	3.37		174.0
/	0918	1	1.7	.2	31.97	8.07	15.23	0.276	2.75		189.5
/	0923	1	2.7	.2	32.03	7.94	14.70	0.256	1.75		207.4
/	0928	1	3.7	.2	32.09	7.86	14.65	0.254	1.62		205.3
/	0933	1	4.7	.2	32.12	7.85	14.52	0.253	1.32		210.8
/	0938	1	5.7	.2	32.13	7.95	14.48	0.254	1.30		209.7
/	0943	1	6.7	.2	32.13	7.94	14.32	0.254	1.26		209.2
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eddie Jordan/ Antea Group	Eddie Jordan	0946	0948

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	**ORP:**	± 10 mV
Temp.:	± 0.5° %	**Dissolved Oxygen:**	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-11A	DATE:	1/22/14

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	20 feet to 30 feet	25.13	Bladder Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 27.56 feet) + .4 liters 0.7

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1558	1630	6.7	25.56	25.56

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1600	.7	.7	.2	25.38	3.72	19.98	0.272	9.17		622.4
/	1605	1	1.7	.2	25.38	3.68	19.18	0.250	8.74		879.4
/	1610	1	2.7	.2	25.38	3.83	19.12	0.196	7.81		905.0
/	1615	1	3.7	.2	25.38	3.86	19.13	0.125	7.43		913.9
/	1620	1	4.7	.2	25.41	3.88	19.09	0.114	3.86		918.9
/	1625	1	5.7	.2	25.41	3.90	19.01	0.115	3.99		920.3
/	1630	1	6.7	.2	25.41	3.91	19.01	0.112	4.00		919.2
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eddie Jordan / Antea Group	Eddie Jordan	1632	1634

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	HCL	8260B

REMARKS: Purple Water

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	ORP:	± 10 mV
Temp.:	± 0.5° %	Dissolved Oxygen:	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-11B	DATE:	1-21-15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH: feet to	STATIC DEPTH TO WATER (feet):	~~PURGE PUMP/TUBING TYPE OR~~ BAILER:
2 in	0 to 24 feet	25.08	Sample pro

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= 0.2 + (~~0.17~~ liters/foot X 40.66 feet) + .4 liters OK ~~7.5~~ = 0.7 L

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (~~Gal~~):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1250	1320	L	25	25.08

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Litersl.)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1252	0.32	0.32	0.16	25.21	9.13	20.46	0.109	3.00		104.9
/	1257	0.8	1.12		25.21	9.05	20.51	0.109	2.85		96.6
/	1302		1.92		25.21	8.80	20.59	0.109	2.54		99.5
/	1307		2.72		25.22	8.72	20.58	0.109	2.55		99.4
/	1312		3.52		25.21	8.76	20.38	0.109	2.51		99.1
/	1317	↓	4.4L	↓	25.21	8.76	20.36	0.110	2.96		98.5
/											
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Daniel Kinney		1317	1319

FIELD DECONTAMINATION: (Y) N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 ml	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

~~**Turbidity:**~~	~~<10 NTU~~	**ORP:**	± 10 mV
Temp.:	± 0.5° %	**Dissolved Oxygen:**	± 1 mg/L
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOG

SITE NAME:	Alterman Jonesboro	SITE LOCATION:	Alterman/ Tera Shopping Center
WELL NO:	MW-11C	DATE:	1/21/15

PURGING DATA

WELL DIAMETER	WELL SCREEN INTERVAL DEPTH:	STATIC DEPTH TO WATER (feet):	PURGE PUMP/TUBING TYPE OR BAILER:
2	73 feet to 88 feet	25.95	bladder Pump

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = Pump Volume + (TUBING CAPACITY X TUBING LENGTH)+ FLOW CELL VOLUME

= .25 + (0.0024 liters/foot X 56.94 feet) + .4 liters 1.7

PURGING INITIATED AT:	PURGING ENDED AT:	TOTAL VOLUME PURGED (Gal.):	INITIAL PUMP OR TUBING DEPTH IN WELL (FEET):	FINAL PUMP OR TUBING DEPTH IN WELL (FEET):
1232	1305	6.7	56.94	56.94

PUMP SETTING / PSI	TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (Liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
/	1235	.7	.7	.2	26.02	5.45	19.87	0.254	2.86		206.8
/	1240	1	1.7	.2	26.02	5.45	19.85	0.252	2.41		206.4
/	1245	1	2.7	.2	26.02	5.43	19.82	0.250	1.66		209.4
/	1250	1	3.7	.2	26.02	5.44	19.71	0.250	1.01		212.2
/	1255	1	4.7	.2	26.02	5.42	19.68	0.249	0.91		215.4
/	1300	1	5.7	.2	26.02	5.42	19.67	0.249	0.93		213.7
/	1305	1	6.7	.2	2602	5.42	19.63	0.249	0.97		216.2
/											

Inside Tubing DIA CAPACITY (liters/ Ft); 1/8"= 0.0024; 3/16"= 0.0054; ¼"=0.0097; 5/16"=0.0151; 3/8"=0.027;, 1/2" = 0.0386; 5/8" 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING INITIATED AT:	SAMPLING ENDED AT:
Eddie Jordan / Antea Group	Eddie Jordan	1307	1309

FIELD DECONTAMINATION: Y N DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40ml	HCL	8260B

REMARKS:

NOTES: 1. STABILIZATION CRITERIA FOR THREE CONSECUTIVE WATER QUALITY READINGS

Turbidity:	<10 NTU	**ORP:**	± 10 mV
Temp.:	± 0.5° %	**Dissolved Oxygen:**	± 1 mg/L.
pH:	± 0.2 units		
Specific Conductance:	± 5%		

GROUNDWATER SAMPLING LOGS

POST REMEDIATION PERFORMANCE MONITORING WELLS (July 2015)

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 85°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-3A
Date: 7/2/15
Time In: 1735 Time Out: 1911

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		18.93	
Total Depth	(feet)		25.15	
Screened Interval	(feet)			
Pump Intake ~	(feet)		22.0	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	6.32
Volume of Water in Well:	(gal)	1.03
Pumping Rate of Pump:	(mL/min)	0.16
PumpStart: 1737	Pump Stop:	1807
Minutes of Pumping:		30
Total Volume Removed:	0 (lb)	4.8 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑
Sample ID: MW 3A
Sample Time: 1806
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☑ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	1738	1743	1748	1753	1758	1803			
Rate (ml/min)	0.16	0.16	0.16	0.16	0.16	0.16			
Depth to Water (ft. TOC)	18.95	19.00	19.03	19.05	19.02	19.07			
Temperature (°C)	21.22	19.81	18.83	18.61	18.57	18.58			
pH	4.98	5.17	4.92	4.94	5.00	5.05			
Conductance (mS/cm)	0.034	0.029	0.027	0.026	0.026	0.025			
Dissolved Oxygen mg/L)	11.54	7.40	7.25	7.09	6.88	6.74			
Turbidity (NTU)	17.7	11.4	7.19	5.46	4.56	5.03			
ORP (mV)	153.5	165.9	184.4	185.9	184.2	182.5			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alle

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Afterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 85°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-3B
Date: 7/1/15
Time In: 1234 Time Out: 1314

WELL INFORMATION

		TIC	TOC (CB)	BGS
Depth to Water	(feet)		~~18.00~~	
Total Depth	(feet)		55.60	
Screened Interval	(feet)			
Pump Intake ~	(feet)		38.0	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	36.6
Volume of Water in Well:	(gal)	5.97
Pumping Rate of Pump:	~~(L/min)~~	0.125
PumpStart: 1239	Pump Stop:	1309
Minutes of Pumping:		30
Total Volume Removed: 0 ~~(L)~~		3.75 L

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ____ ☐
☐
Sample ID: MW-3B
Sample Time: 1315
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	1244	1249	1254	1259	1304	1309			
Rate (ml/min)	0.125	0.125	0.125	0.125	0.125	0.125			
Depth to Water (ft. TOC)	19.30	~~20.18~~ CB	19.30	19.29	19.30	19.26			
Temperature (°C)	21.50	20.18	20.22	19.94	19.93	19.95			
pH	7.75	5.45	5.09	4.96	4.93	4.93			
Conductance (mS/cm)	0.115	0.091	0.089	0.087	0.086	0.085			
Dissolved Oxygen mg/L)	24.28	20.61	21.67	21.74	21.96	21.20			
Turbidity (NTU)	11.9	14.0	8.73	9.10	7.20	8.27			
ORP (mV)	71.0	115.7	132.7	143.5	150.6	155.9			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

DTW; TOC = 19.00

Time 2: DTW = 19.26

SAMPLE DESTINATION

Laboratory: ____
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____

Sample was ☐ shipped day of sampling ☐ picked up on

Chain of Custody Signed By: ____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Sanders
Job Number: E040957580
Weather: 79° Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-8A
Date: 7/14/15
Time In: 0829 Time Out: 0929

WELL INFORMATION (check where appropriate)

		TIC	TOC	BGS
Depth to Water	(feet)		24.45	
Total Depth	(feet)		31.80	
Screened Interval	(feet)		23-32	
Pump Intake ~	(feet)		28.12	

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☐ No ☑
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.35
Volume of Water in Well:	(gal)	1.19
Pumping Rate of Pump:	(L/min)	.2
PumpStart: 0848	Pump Stop:	0924
Minutes of Pumping:		36
Total Volume Removed:	(L/gal)	6.8

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal. = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gas ☐
☐
Sample ID: MW-8A
Sample Time: 0916
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ _____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	0850	0855	0900	0905	0910	0915			
Rate (ml/min)	.2	.2	.2	.2	.2	.2			
Depth to Water (ft. TOC)	24.49	24.50	24.50	24.50	24.50	24.50			
Temperature (°C)	23.66	23.58	23.13	22.99	22.86	22.84			
pH	4.84	2.34	2.71	2.77	2.89	2.84			
Conductance (mS/cm)	0.102	0.078	0.080	0.078	0.075	0.075			
Dissolved Oxygen (mg/L)	10.66	9.34	8.49	6.19	6.22	6.22			
Turbidity (NTU)	11.8	6.8	7.9	6.9	7.2	7.8			
ORP (mV)	493.3	883.3	883.6	818.7	818.3	823.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluid's Used: DI H2O, AlK

Sample Observations: Water has a reddish tint

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☐ UPS ☐ Other
Sample was shipped day of sampling ☐ picked up on ☐
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Atterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 95°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-8B
Date: 7/14/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		24.45	
Total Depth	(feet)		57.60	
Screened Interval	(feet)			
Pump Intake ~	(feet)		45.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	33.15
Volume of Water in Well:	(gal)	5.40
Pumping Rate of Pump:	(L/min)	0.16
PumpStart: 1203	Pump Stop:	1233
Minutes of Pumping:		30
Total Volume Removed: 0		4.8L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: Dissolved Gases		☑

Sample ID: MW-8B
Sample Time: 1233
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

Time / Parameter	1	2	3	4	5	6	7	8	9
	1203	1208	1213	1218	1223	1228			
Rate (ml/min)	0.16	0.16	0.16	0.16	0.16	0.16			
Depth to Water (ft. TOC)	24.45	24.45	24.43	24.40	24.40	24.42			
Temperature (°C)	26.58	24.10	23.53	23.40	24.16	24.41			
pH	6.82	6.56	5.86	5.76	5.67	5.58			
Conductance (mS/cm)	0.156	0.146	0.144	0.143	0.146	0.147			
Dissolved Oxygen mg/L)	6.48	4.80	4.45	4.32	4.01	3.91			
Turbidity (NTU)	6.50	8.22	6.82	6.11	7.76	5.55			
ORP (mV)	485.8	561.6	677.2	699.7	716.7	730.6			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI water w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Color of water: Purple Dye test?

SAMPLE DESTINATION

Laboratory: Test Am. Savannah
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-8C
Date: 7/2/15
Time In: Time Out:

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		30.65	
Total Depth	(feet)		85.22	
Screened Interval	(feet)			
Pump Intake –	(feet)		57.54	

WELL WATER INFORMATION

Length of Water Column:	(feet)	54.57
Volume of Water in Well:	(gal)	8.89
Pumping Rate of Pump:	(mL/min)	0.07
PumpStart: 1050	Pump Stop: 1140	
Minutes of Pumping:		50
Total Volume Removed:	0 (mL)	3.5 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: Dissolved Gases (Hold) ☑ ☐
Sample ID: MW-8C
Sample Time: 1145
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	1055	1100	1105	1110	1115	1120	1125	1130	1135
Rate (ml/min)	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.07
Depth to Water (ft. TOC)	30.47	30.89	31.30	31.82	32.30	32.68	33.12	34.50	33.87
Temperature (°C)	26.62	24.86	26.60	27.88	28.56	28.43	28.32	28.79	28.86
pH	9.17	9.15	9.05	9.07	9.10	9.11	9.09	911	9.10
Conductance (mS/cm)	0.724	0.707	0.730	0.749	0.757	0.756	0.754	0.760	0.761
Dissolved Oxygen (mg/L)	9.40	7.35	4.45	4.54	5.37	5.47	5.11	4.52	4.41
Turbidity (NTU)	2.75	2.64	3.16	2.40	2.61	2.35	1.38	1.24	2.15
ORP (mV)	45.8	29.2	1.1	-32.0	-55.0	-72.4	-82.9	-90.2	91.9

Time	10	11	12
Parameter	1140		
Rate (ml/min)	0.07		
Depth to Water (ft. TIC)	34.33		
Temperature (°C)	29.40		
pH	9.10		
Conductance (mS/cm)	0.768		
Dissolved Oxygen (mg/L)	4.33		
Turbidity (NTU)	1.14		
ORP (mV)	-94.4		

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alc

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 1: 33.50 DTW
Drawdown exceeded 3ft

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☐ UPS ☐ Other ____

Sample was shipped day of sampling ☐ picked up on ☐

Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Allerman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jordan
Job Number: E040957680
Weather: 85°

Event: GW Sampling Event - Summer 2015
Well ID: MW-9A
Date: 7/14/15
Time In: 1230 Time Out: 1338

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.01	
Total Depth	(feet)		30.35	
Screened Interval	(feet)		20-30	
Pump Intake ~	(feet)		24.68	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	11.34
Volume of Water in Well:	(gal)	1.84
Pumping Rate of Pump:	(mL/min)	400
PumpStart: 1240	Pump Stop:	1332
Minutes of Pumping:		72
Total Volume Removed: 0	(ml)	28800

Conversion Factors

gallons per foot of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond.	ORP	Temp
±0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Isotopes Various ☐
☐
Other: Dissolved Gas ☐
Sample ID: MW-9A
Sample Time: 1329
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☑	Bladder ☐	Other Pump ☐			
Tubing Used:	Teflon ☑	Polyethylene ☐					
Sampling Method:	Bailer ☐	Peristaltic ☑	Bladder ☐	Other Pump ☐			

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time	*1 1245	2 1250	*3 1255	4 1300	5 1305	6 1310	7 1315	8 1320	9
Parameter									
Rate (ml/min)	400	400	400	400	400	400	400	400	
Depth to Water (ft. TOC)	19.09	19.05	19.12	19.12	19.12	19.12	19.12	19.12	
Temperature (°C)	21.85	20.05	20.04	20.06	20.05	19.89	19.73	19.68	
pH	3.57	2.81	6.72	3.75	2.52	2.53	2.71	3.08	
Conductance (mS/cm)	0.047	0.046	0.046	0.047	0.047	0.046	0.040	0.046	
Dissolved Oxygen (mg/L)	4.25	2.12	1.36	0.87	0.86	0.83	3.10	3.18	
Turbidity (NTU)	7.2	6.3	5.7	6.5	4.2	5.1	4.6	3.2	
ORP (mV)	596.5	544.2	578.1	527.0	461.0	412.0	410.0	414.0	

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used:

Sample Observations: * battery change @ 1245 and @ 1255

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Sample was ☐ shipped day of sampling Chain of Custody Signed By:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ☐ picked up on

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Stanley
Job Number: E040957580
Weather:

Event: GW Sampling Event - Summer 2015
Well ID: MW-95
Date: 7/2/2015
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.30	
Total Depth	(feet)		43.50	
Screened Interval	(feet)			
Pump Intake ~	(feet)		43.6	

check where appropriate
Well Type: Flushmount ✓ Stick-Up
Well Locked: Yes ✓ No
Measuring Point Marked: Yes ✓ No
Well Diameter: 1" 2" ✓ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	40.7
Volume of Water in Well:	(gal)	3.13
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ✓
Metals 6010
Inorganics Various
Other: Dissolved Gases (HCl) ✓
Sample ID: MW-95
Sample Time: 1010
MS/MSD: Yes No
Duplicate: Yes No
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer Peristaltic Bladder ✓ Other Pump
Tubing Used: Teflon ✓ Polyethylene
Sampling Method: Bailer Peristaltic Bladder ✓ Other Pump
Did well go dry? Yes No ✓ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	0940	0945	0950	0955	1000	1005			
Rate (ml/min)	0.25	0.25	0.20	0.20	0.20	0.20			
Depth to Water (ft. TOC)	20.11	20.10	20.09	19.99	19.98	19.97			
Temperature (°C)	19.00	18.56	18.99	1910	19.23	19.22			
pH	6.27	6.00	5.91	5.98	6.02	6.04			
Conductance (mS/cm)	0.179	0.162	0.165	0.165	0.165	0.165			
Dissolved Oxygen mg/L	10.35	11.10	9.49	9.16	8.95	8.95			
Turbidity (NTU)	2.57	2.47	1.68	1.51	1.32	1.27			
ORP (mV)	63.4	71.1	70.7	65.8	63.7	62.5			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ HCl

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 4, DTW = 19.98

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express UPS Other

Sample was shipped day of sampling
picked up on

Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: 93°F, Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-9C
Date: 7/1/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.31	
Total Depth	(feet)		94.73	
Screened Interval	(feet)			
Pump Intake –	(feet)		57.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	75.42
Volume of Water in Well:	(gal)	12.30
Pumping Rate of Pump:	(L/min)	0.2
PumpStart: 1708	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed: 0 (dry)		

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
☐
Other: Dissolved Cr6+ (field) ☑
Sample ID: MW-9C
Sample Time: 1742
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	1713	1718	1723	1728	1733	1738			
Rate (ml/min)	0.20	0.20	0.20	0.20	0.20	0.20			
Depth to Water (ft. TOC)	19.90	20.05	18.83	20.08					
Temperature (°C)	20.72	18.79	18.83	18.87	18.84	18.83			
pH	8.17	6.99	6.18	6.21	6.35	6.36			
Conductance (mS/cm)	0.178	0.180	0.183	0.181	0.179	0.180			
Dissolved Oxygen mg/L)	8.58	2.76	1.82	1.46	1.14	1.15			
Turbidity (NTU)	1.21	9.51	8.73	6.77					
ORP (mV)	41.3	50.2	44.0	38.5	32.9	31.8			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used:

Decontamination Fluids Used:

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

T.w. 7: DTW = 20.05

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☐ picked up on

Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jordan
Job Number: E040957580
Weather: 79° Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-10A
Date: 7/14/15
Time In: 0945 Time Out: 1052

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		25.05	
Total Depth	(feet)		58.00	
Screened Interval	(feet)		21-37	
Pump Intake ~	(feet)		31.52	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	12.95
Volume of Water in Well:	(gal)	2.11
Pumping Rate of Purge:	(mL/min)	400
Pump Start: 0957	Pump Stop:	1035
Minutes of Pumping:		37
Total Volume Removed: 0	(mL)	14,800

Conversion Factors

gallons per foot	1" ID	2" ID	4" ID	6" ID
cf water column	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Well Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved GAS ☐
Sample ID: MW-10A
Sample Time: 1034
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

Time / Parameter	1	2	3	4	5	6	7	8	9
	1003	1008	1013	1018	1023	1028	1033		
Rate (ml/min)	400	400	400	400	400	400	400		
Depth to Water (ft. TOC)	25.12	25.12	25.12	25.12	25.12	25.12	25.12		
Temperature (°C)	25.09	24.60	24.59	24.54	24.52	24.52	24.52		
pH	4.96	4.35	4.71	4.59	4.64	4.62	4.62		
Conductance (mS/cm)	0.068	0.065	0.065	0.065	0.065	0.065	0.065		
Dissolved Oxygen (mg/L)	6.05	5.66	5.48	6.12	5.94	5.92	5.92		
Turbidity (NTU)	3.7	3.4	2.9	12.4	2.5	2.3	2.4		
ORP (mV)	699.2	725.4	694.6	695.8	685.6	682.4	683.2		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O
ALV
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 92°F Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW 105
Date:
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		24.90	
Total Depth	(feet)		39.10	
Screened Interval	(feet)			
Pump Intake ~	(feet)		32.00	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column: (feet)	14.3
Volume of Water in Well: (gal)	2.33
Pumping Rate of Pump: 1 L/min ~~(ml/min)~~	0.25
PumpStart: 17:47 Pump Stop:	
Minutes of Pumping:	
Total Volume Removed: 0 ~~(ml)~~ L	

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: Dissolved Gases ☐
Sample ID: 1820
Sample Time:
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ YSI 556
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: Horiba U-22 Flow Cell

Time / Parameter	1	2	3	4	5	6	7	8	9
	1750	1755	1800	1805	1810	1815			
Rate ~~(ml/min)~~ L/min	~~0.25~~	0.25							
Depth to Water (ft. TOC)	24.98	24.98	24.98	25.00	25.00	25.01			
Temperature (°C)	25.00	24.64	24.62	24.93	24.92	24.96			
pH	11.31	11.42	11.45	11.46	11.47	11.47			
Conductance (mS/cm)	0.413	0.444	0.444	0.444	0.445	0.444			
Dissolved Oxygen mg/L	9.24	6.93	6.99	8.07	8.96	9.01			
Turbidity (NTU)	32.2	16.3	16.1	16.5	16.8	16.8			
ORP (mV)	37.4	33.1	33.1	33.0	31.0	31.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. O.T.
Decontamination Fluids Used: D.I. water
D. I. water with Alc
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION
Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was: shipped day of sampling ☐ picked up on ☑
Chain of Custody Signed By: Daniel Kinard

SAMPLING LOG

Client/Project	Ashland - Alterman
Site Location:	Jonesboro, GA
Sampling Personnel:	DA
Job Number:	E040957580
Weather:	90's - Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-10C
Date: 7.02.15
Time In: 1645 Time Out: 1720

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		31.47	
Total Depth	(feet)		88.25	
Screened Interval	(feet)			
Pump Intake ~	(feet)		60.00	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	57.21
Volume of Water in Well:	(gal)	9.33
Pumping Rate of Pump:	0.20 L/min (~~ml/min~~)	0.20
PumpStart: 1645	Pump Stop:	1720
Minutes of Pumping:		35
Total Volume Removed:	~0.20 (gal) L	7.00

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: dissolved ☐
Sample ID: ☐
Sample Time: 1720
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☐	
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1645	1650	1655	~~1700~~	1705	1710	1715		
Rate ~~(ml/min)~~ L/min	0.20	0.20	0.20	0.20	0.20	0.20	0.20		
Depth to Water (ft. TOC)	31.45	32.04	32.85	33.70	34.56	35.36	36.07		
Temperature (°C)	25.04	25.27	25.69	25.90	26.41	27.11	26.91		
pH	9.83	9.91	10.02	10.02	10.02	10.01	10.01		
Conductance (mS/cm)	0.054	0.055	0.056	0.056	0.056	0.057	0.056		
Dissolved Oxygen mg/L	5.95	10.2	6.16	6.00	5.97	6.14	6.12		
Turbidity (NTU)	9.15	4.88	4.11	0.34	3.91	0.81	0.71		
ORP (mV)	120.7	102.1	90.1	60.3	38.4	30.1	37.4		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. O.I
Decontamination Fluids Used: DI water
DI water with Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Very Slow - SP pump Rate
water table dropping fast

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on ☑
Chain of Custody Signed By: Daniel Klecan

SAMPLING LOG

Client/Project: Ashland - Altamen
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Deloach
Job Number: E040957580
Weather: 90°

Event: GW Sampling Event - Summer 2015
Well ID: MW-11A
Date: 7/16/15
Time In: 0900 Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		22.61	
Total Depth	(feet)		30.15	
Screened Interval	(feet)		20-30	
Pump Intake –	(feet)		26.38	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.54
Volume of Water in Well:	(gal)	1.2
Pumping Rate of Pump:	(mL/min)	200
Pump Start: 0905	Pump Stop:	1045
Minutes of Pumping:		100
Total Volume Removed:	0 (ml)	20000

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Use Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	±10%	±5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Fe ☐
☐
Sample ID: MW-11A
Sample Time: 0936
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 30

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	0910	0915	0920	0925	0930	0935			
Rate (ml/min)	200	200	200	200	200	200			
Depth to Water (ft. TOC)	22.73	22.73	22.73	22.73	22.73	22.73			
Temperature (°C)	23.07	22.50	22.37	22.15	22.14	22.16			
pH	4.94	4.61	4.36	4.23	4.13	4.28			
Conductance (mS/cm)	0.066	0.063	0.061	0.060	0.059	0.059			
Dissolved Oxygen (mg/L)	8.49	8.63	9.07	9.40	9.63	10.13			
Turbidity (NTU)	19.2	11.2	9.8	10.4	9.2	9.3			
ORP (mV)	768.2	795.2	824.4	841.1	852.1	846.4			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used:
Heron

Decontamination Fluids Used:
DI H2O
AIK

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: ____
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: ____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: Good Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW 113
Date: 7.2.15
Time In: 1410 Time Out: 1450

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		22.60	
Total Depth	(feet)		53.82	
Screened Interval	(feet)			
Pump Intake ~	(feet)		40	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☐ No ☐
Well Diameter: 1" ☐ 2" ☐ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	31.17
Volume of Water in Well:	(gal)	5.037
Pumping Rate of Pump: 1/min	(ml/min)	0.25
PumpStart: 1415	Pump Stop: 1450	
Minutes of Pumping:		40
Total Volume Removed: 0	(ml) L	10

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
☐
Other: Dissolved Gases ☐
Sample ID:
Sample Time: 1440
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	
Did well go dry?	Yes ☐	No ☑	Water Quality Meter Type:	YSI 556 MPS	

Time / Parameter	1	2	3	4	5	6	7	8	9
	1415	1420	1425	1430	1435	Keto			
Rate (ml/min) L/min	0.25	0.25	0.25	0.25	0.25	0.25			
Depth to Water (ft. TOC)	22.75	22.80	22.82	22.82	22.82	22.82			
Temperature (°C)	21.91	21.38	21.22	21.04	21.06	21.04			
pH	9.64	8.44	8.37	8.60	8.56	8.52			
Conductance (mS/cm)	0.159	0.162	0.159	0.161	0.161	0.163			
Dissolved Oxygen mg/L	8.21	7.50	7.25	6.62	6.61	6.60			
Turbidity (NTU)	3.80	2.98	1.87	3.82	4.04	4.07			
ORP (mV)	494.9	123.0	240.9	469.6	481.7	475.4			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H.O.I

Decontamination Fluids Used: D.I. water
D.I. water w/ HNO3

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

1430 water turns purple

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☑ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☑ picked up on

Chain of Custody Signed By: Daniel Kinard

Hold

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 90°F Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW 11R
Date: 5-21-15
Time In: 1529 Time Out: 1610

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		23.64	
Total Depth	(feet)		53.00	
Screened Interval	(feet)			
Pump Intake --	(feet)		40.00	

check where appropriate
Well Type: Flushmount ✓ Stick-Up ☐
Well Locked: Yes ✓ No ☐
Measuring Point Marked: Yes ✓ No ☐
Well Diameter: 1" ☐ 2" ✓ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	34.36
Volume of Water in Well:	(gal)	5.60
Pumping Rate of Pump:	L/min 4(mL/min)	0.33
PumpStart: 1530	Pump Stop:	1610
Minutes of Pumping:	40	13.2
Total Volume Removed:	0 (ml)	L

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ✓
Metals 6010 ☐
Inorganics Various ☐
Other: dissolved gasses ☐
Sample ID: ☐
Sample Time: 1600
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ✓
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ✓ Other Pump ☐ ____
Tubing Used: Teflon ✓ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ✓ Other Pump ☐ ____

Did well go dry? Yes ☐ No ✓ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1530	1535	1540	1595	1550				
Rate ~~ml/min~~ L/min	0.33	0.33	0.33	0.33	0.33				
Depth to Water (ft. TOC)	23.33	24.00	24.07	24.08	24.08				
Temperature (°C)	21.61	21.35	21.26	21.23	21.22				
pH	5.97	5.90	6.09	6.06	6.06				
Conductance (mS/cm)	0.250	0.248	0.247	0.247	0.246				
Dissolved Oxygen mg/L	3.81	1.70	1.69	1.82	1.41				
Turbidity (NTU)	7.89	5.09	3.01	2.97	2.98				
ORP (mV)	647.4	630.2	611.3	607.8	604.9				

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. Oil

Decontamination Fluids Used: D.I. water
D.I. water with Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS
* Slanted road note *

SAMPLE DESTINATION
Laboratory:
Shipped Via: Federal Express ✓ UPS ☐ Other ____

Sample was shipped day of sampling ☐ picked up on ✓

Chain of Custody Signed By: Daniel Kincaid

Hold

GROUNDWATER SAMPLING LOGS

MONITORING WELLS
(July 2015)

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Gogley
Job Number: E040957580
Weather: cloudy, 75

Event: GW Sampling Event - Summer 2015
Well ID: MW-1A
Date: 7/1/15
Time In: 1032 Time Out: 1059

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		23.64	
Total Depth	(feet)		24.91	
Screened Interval	(feet)			
Pump Intake –	(feet)		24.23	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	1.27
Volume of Water in Well:	(gal)	0.20
Pumping Rate of Pump:	(mL/min)	N/A
PumpStart: 1032	Pump Stop:	N/A 1058
Minutes of Pumping:		N/A
Total Volume Removed: 0 gal		0.60

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gasses ☑
☐
Sample ID: MW-1A
Sample Time: 11:00
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☑ Peristaltic ☐ Bladder ☑ (CB) Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☑ Peristaltic ☐ Bladder ☑ (CB) Other Pump ☐
Did well go dry? Yes ☑ No ☐ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1037	1042	1046	1054	1056	CG			
Rate (ml/min)	N/A	N/A	N/A	N/A					
Depth to Water (ft. TOC)									
Temperature (°C)	23.66	20.12	20.06	20.15					
pH	4.81	5.06	5.07	5.28					
Conductance (mS/cm)	0.261	0.046	0.029	0.050					
Dissolved Oxygen mg/L	23.01	13.39	11.85	9.85					
Turbidity (NTU)									
ORP (mV)	137.6	92.6	100.7	91.7					

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used:

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Insufficient amount of water in well for low-flow bladder sample & parameter collection done w/ bailer

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☐ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on ☐
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 80°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-1C
Date: 7/1/15
Time In: 1125 Time Out: 1155

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		36.74	
Total Depth	(feet)		101.21	
Screened Interval	(feet)			
Pump Intake ~	(feet)		70.0	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	64.42
Volume of Water in Well:	(gal)	10.51
Pumping Rate of Pump:	(mL/min)	0.14
PumpStart: 1125	Pump Stop:	1155
Minutes of Pumping:		30
Total Volume Removed: 0 (gal)		4.2 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gasses (RSK) ☑
Sample ID: MW-1C
Sample Time: 1200
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☑	Peristaltic ☐	Bladder ☑	Other Pump ☐	____
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1130	1135	1140	1145	1150	1155			
Rate (ml/min)	0.14	0.14	0.14	0.14	0.14	0.14			
Depth to Water (ft. TOC)	36.26	36.40	36.61	36.80	36.96	37.00			
Temperature (°C)	23.18	21.41	21.13	20.87	20.82	21.04			
pH	10.12	10.04	10.06	10.10	10.16	10.16			
Conductance (mS/cm)	0.495	0.477	0.483	0.484	0.484	0.486			
Dissolved Oxygen mg/L)	21.42	22.86	22.77	22.77	22.16	21.09			
Turbidity (NTU)	5.33	2.53	2.53	3.16	1.67	0.90			
ORP (mV)	129.9	143.2	147.0	144.8	141.0	139.5			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: ____
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By: ____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 73°F Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-4A
Date: 7-2-15
Time In: 0945 Time Out: 1035

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		11.69	
Total Depth	(feet)		25.10	
Screened Interval	(feet)			
Pump Intake ~	(feet)		17	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	13.5
Volume of Water in Well:	(gal)	2.20
Pumping Rate of Pump:	L/min (gal/min)	0.17
PumpStart: 0949	Pump stop:	1035
Minutes of Pumping:	46	
Total Volume Removed:	0 (gal) L	7.82

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	±1 mg/L	±5.0%	±10%	±5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: Dissolved ☐
☐
☐

Sample ID: MW-4A
Sample Time: 1030
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Did well go dry? Yes ☐ No ☑
Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	0950	0955	1000	1005	1010	1015	1020	1025	
Rate (ml/min) L/min	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	
Depth to Water (ft. TOC)	11.87	11.83	11.83	11.83	11.83	11.83	11.85	11.85	
Temperature (°C)	20.59	20.21	20.26	20.23	21.24	20.19	20.19	20.12	
pH	4.21	4.19	4.184	4.62	4.73	4.61	4.59	4.60	
Conductance (mS/cm)	0.130	0.132	0.132	0.132	0.132	0.133	0.133	0.133	
Dissolved Oxygen mg/L	8.09	2.47	2.80	2.01	1.85	1.50	1.45	1.44	
Turbidity (NTU)	1.69	1.31	1.15	1.34	0.84	0.66	0.51	1.01	
ORP (mV)	246.7	247.2	247.7	249.3	247.1	253.7	253.7	253.8	

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: H2O Meter
Decontamination Fluids Used: DI Water, DI Water, AIK
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION
Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on ☐
Chain of Custody Signed By: David Kincaid

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 93° Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-413
Date: 7-1-15
Time In: 1724 Time Out: 1810

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.60	
Total Depth	(feet)		59.09	
Screened Interval	(feet)			
Pump Intake –	(feet)		35	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	46.49
Volume of Water in Well:	(gal)	7.59
Pumping Rate of Pump:	L/min ~~(ml/min)~~	0.17
PumpStart: 1730	Pump Stop:	1810
Minutes of Pumping:		40
Total Volume Removed: 0 (ml) L		6.8

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: ~~Erosion~~ ☐
~~Test~~ DK ☐
Sample ID: MW 413
Sample Time: 1800
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ___
Tubing Used: Teflon ☐ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ___
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1730	1735	1740	1745	1750	1755			
Rate ~~(ml/min)~~ L/min	0.14	0.17	0.12	0.19	0.12	0.17			
Depth to Water (ft. TOC)	13.70	13.81	13.79	13.81	13.79	13.81			
Temperature (°C)	20.46	20.59	20.58	20.57	20.76	20.64			
pH	4.23	4.53	4.72	5.06	5.09	5.08			
Conductance (mS/cm)	0.079	0.079	0.078	0.079	0.079	0.78			
Dissolved Oxygen mg/L	4.37	4.13	4.14	4.06	4.16	4.03			
Turbidity (NTU)	4.73	4.19	3.15	4.33	1.30	1.02			
ORP (mV)	215.9	198.1	190.2	178.1	176.4	169.9			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Micro Tip 0.1

Decontamination Fluids Used: D.I. water
D.I. rinse with Alc

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS
* raining lite while sampling

SAMPLE DESTINATION
Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on ☑
Chain of Custody Signed By: 7-2-15 Daniel Kinsel

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SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 78° Cloudy

Event: GW Sampling Event - Summer 2015
Well ID: MW-5A
Date: 7-1-15
Time In: 1425 Time Out: 1510

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		11.86	
Total Depth	(feet)		24.94	
Screened Interval	(feet)			
Pump Intake ~	(feet)		19	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	13.08
Volume of Water in Well:	(gal)	2.13
Pumping Rate of Pump:	L/min ~~(ml/min)~~	0.2
PumpStart: 1429	Pump Stop:	1516
Minutes of Pumping:		41
Total Volume Removed: 0	(ml)	8.2

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Iron ☐
☐
Sample ID: MW-5A
Sample Time: 1500
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Did well go dry? Yes ☐ No ☑
Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1430	1435	1440	1445	1450	1455			
Rate (ml/min) L/min	0.2	0.1	0.1	0.1	0.1	0.2			
Depth to Water (ft. TOC)	12.35	12.45	12.45	12.69	12.77	13.04			
Temperature (°C)	20.15	19.40	19.42	19.30	19.28	19.38			
pH	6.28	6.26	6.26	6.27	6.27	6.27			
Conductance (mS/cm)	0.319	0.309	0.309	0.303	0.303	0.302			
Dissolved Oxygen mg/L	5.09	0.46	0.42	0.17	0.17	0.16			
Turbidity (NTU)	3.16	2.54	1.37	4.15	4.38	3.92			
ORP (mV)	-35.6	-41.4	-42.4	-38.3	-38.7	-38.3			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Hero H. Oil

Decontamination Fluids Used: D.I. water
D.I. water with Alc

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on 7-2-15 ☑
Chain of Custody Signed By: Daniel Keen

SAMPLING LOG

Client/Project: Ashland - Aftermen
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Selden
Job Number: E040857580
Weather: 90°

Event: GW Sampling Event - Summer 2015
Well ID: MW-5D
Date: 7/15/15
Time In: 1140 Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.05	
Total Depth	(feet)		45.29	
Screened Interval	(feet)		36-46	
Pump Intake ~	(feet)		28.67	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	33.24
Volume of Water in Well:	(gal)	5.41
Pumping Rate of Pump:	(mL/min)	400
Pump Start: 1145	Pump Stop:	1330
Minutes of Pumping:		45
Total Volume Removed: 0	(ml)	18000

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Well Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: See Chain ☐
☐
Sample ID: MW-5D
Sample Time: 1219
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: NA
Total Bottles: 28

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	1145	1153	1158	1203	1208	1213	1218		
Rate (ml/min)	400	400	400	400	400	400	400		
Depth to Water (ft. TOC)	12.13	12.13	12.13	12.13	12.13	12.13	12.13		
Temperature (°C)	20.96	20.62	20.62	20.58	20.48	20.57	20.53		
pH	5.27	2.72	3.85	4.41	4.79	4.97	5.09		
Conductance (mS/cm)	0.091	0.088	0.087	0.087	0.088	0.085	0.088		
Dissolved Oxygen (mg/L)	3.90	2.44	1.89	1.44	1.51	1.24	1.28		
Turbidity (NTU)	8.2	7.4	7.2	6.5	4.2	3.7	3.9		
ORP (mV)	275.1	470.8	427.1	411.5	405.1	407.5	416.7		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O, NA
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 95°

Event: GW Sampling Event - Summer 2015
Well ID: MW-5C
Date: 7/14/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.72	
Total Depth	(feet)		90.02	
Screened Interval	(feet)			
Pump Intake ~	(feet)		52.00	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	76.30
Volume of Water in Well:	(gal)	12.44
Pumping Rate of Pump:	(~~mL~~/min)	0.08
PumpStart: 0846	Pump Stop:	0916
Minutes of Pumping:		30
Total Volume Removed:	0 (~~mL~~)	2.4 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑ ☐
Sample ID: MW-5C
Sample Time: 0916
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	0846	0851	0856	0901	0906	0911			
Rate (ml/min)	0.08	0.08	0.08	0.08	0.08	0.08			
Depth to Water (ft. TOC)	12.80	13.62	13.95	14.44	14.96	15.39			
Temperature (°C)	23.36	22.02	22.61	23.18	22.70	22.71			
pH	6.10	6.24	6.37	6.45	6.51	6.55			
Conductance (mS/cm)	0.237	0.210	0.206	0.209	0.206	0.206			
Dissolved Oxygen mg/L)	6.77	5.45	2.35	1.30	1.01	0.74			
Turbidity (NTU)	2.08	3.46	1.48	2.31	2.07	2.38			
ORP (mV)	115.2	103.1	92.7	81.5	75.5	69.5			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alc.

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Alterman
Site Location:	Jonesboro, GA
Sampling Personnel:	DK
Job Number:	E040957580
Weather:	90's Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW 6A
Date: 6-30-15
Time In: 1558 Time Out: 1635

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.98	
Total Depth	(feet)		24.99	
Screened Interval	(feet)			
Pump Intake ~	(feet)		~~15~~ <17.5	

check where appropriate
Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	15.00
Volume of Water in Well:	1 (gal)	2.43
Pumping Rate of Pump:	1/m (mL/min)	0.17
PumpStart: 1554	Pump Stop:	1630
Minutes of Pumping:	36	
Total Volume Removed:	0 (mL) L	6.12

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: Dissolved Gases		☐
		☐

Sample ID: MW 6A
Sample Time: 1620
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☐	

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1 1554	2 1600	3 1605	4 1610	5 1615	6 1620	7	8	9
Rate (ml/min) 1/m	0.17	0.17	0.17	0.17	0.17	0.17			
Depth to Water (ft. TOC)	10.14	10.12	10.13	10.13	10.14	10.21			
Temperature (°C)	20.44	19.93	19.83	19.86	19.59	19.59			
pH	5.78	5.51	5.53	5.52	5.53	5.54			
Conductance (mS/cm)	0.093	0.104	0.106	0.105	0.106	0.107			
Dissolved Oxygen mg/L)	1.09	0.50	0.44	0.39	0.35	0.34			
Turbidity (NTU)	1.58	2.13	1.37	1.24	9.68	1.06			
ORP (mV)	419.4	470.5	499.2	510.9	517.0	[illegible] <519.4			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Interface 14.011

Decontamination Fluids Used: DI water
DI water with Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☑ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☑ picked up on
Chain of Custody Signed By: 7.1.15 Dan Kinard

553

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-6B
Date: 6/30/2015
Time In: 1541 Time Out: 1616

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		10.26	
Total Depth	(feet)		87.16	
Screened Interval	(feet)			
Pump Intake ~	(feet)		50.0	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	76.9
Volume of Water in Well:	(gal)	12.53
Pumping Rate of Pump:	(mL/min)	0.14
PumpStart: 1541	Pump Stop:	1611
Minutes of Pumping:		30
Total Volume Removed: 0 L		4.2 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑
☐
Sample ID: MW-6B
Sample Time: 1615
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time	1	2	3	4	5	6	7	8	9
Parameter	1546	1551	1556	1601	1606	1611			
Rate (ml/min)	0.14	0.14	0.14	0.14	0.14	0.14			
Depth to Water (ft. TOC)	10.40	10.41	10.40	10.40	10.40	10.40			
Temperature (°C)	21.57	20.19	19.94	20.06	19.59	19.86			
pH	5.79	5.45	5.28	5.30	5.38	5.44			
Conductance (mS/cm)	0.053	0.049	0.048	0.048	0.047	0.048			
Dissolved Oxygen mg/L)	10.12	8.61	7.53	6.93	6.67	6.27			
Turbidity (NTU)	10.99	15.84	6.84	7.12	5.80	5.92			
ORP (mV)	110.5	157.9	140.9	131.0	126.1	118.2			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 6: DO = 6.27

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: 90° F, Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-78
Date: 7/1/2015
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		25.91	
Total Depth	(feet)		32.60	
Screened Interval	(feet)			
Pump Intake –	(feet)		28.00	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☐ No ☑
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	6.69
Volume of Water in Well:	(gal)	1.09
Pumping Rate of Pump:	(mL/min)	0.12
PumpStart: 15:36	Pump Stop: 16	
Minutes of Pumping:		
Total Volume Removed: 0	(ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑
Sample ID: MW-78
Sample Time: 1605
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1536	1541	1546	1551	1556	1601			
Rate (ml/min)	0.12	0.12	0.12	0.12	0.12	0.12			
Depth to Water (ft. TOC)	26.00	25.95	25.97	23.01@	25.96	25.98			
Temperature (°C)	24.21	23.73	23.43	23.01	23.16	22.97			
pH	5.77	5.06	4.95	4.92	4.97	5.00			
Conductance (mS/cm)	0.041	0.037	0.036	0.035	0.035	0.035			
Dissolved Oxygen mg/L)	14.52	13.84	14.70	11.76	11.46	11.50			
Turbidity (NTU)	15.3	12.2	10.0	8.63	8.40	7.64			
ORP (mV)	90.8	143.6	157.0	172.7	178.9	185.6			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI water, DI w/ Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 4: DTW = 25.95

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-7C
Date: ~~7-9-15~~ 7/1/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		31.44	
Total Depth	(feet)		62.83	
Screened Interval	(feet)			
Pump Intake ~	(feet)		50.60	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	31.39
Volume of Water in Well:	(gal)	5.12
Pumping Rate of Pump:	~~(gal)~~/min)	0.11
PumpStart: 1420	Pump Stop:	1455
Minutes of Pumping:		35
Total Volume Removed: 0	gal	3.85 L

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases (Hall) ☑
Sample ID: MW 7C
Sample Time: 1500
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time	1	2	3	4	5	6	7	8	9
Parameter	1425	1430	1435	1440	1445	1450	1455		
Rate (ml/min)	0.11	0.11	0.11	0.11	0.11	0.11	0.11		
Depth to Water (ft. TOC)	32.50	32.10	32.70	32.75	32.81	32.84	32.93		
Temperature (°C)	26.86	24.06	23.65	25.09	27.10	27.74	27.92		
pH	6.74	6.17	5.93	6.00	6.45	6.45	6.48		
Conductance (mS/cm)	0.077	0.069	0.068	0.071	0.074	0.076	0.076		
Dissolved Oxygen mg/L)	9.64	2.33	1.23	0.99	0.95	1.01	1.01		
Turbidity (NTU)	14.8	18.4	12.3	9.47	8.82	6.73	7.21		
ORP (mV)	96.6	121.5	132.1	122.5	96.4	93.8	91.5		

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alc

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☐ UPS ☐ Other
Sample was shipped day of sampling ☐ picked up on ☐
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-12A
Date: 7/2/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.36	
Total Depth	(feet)		~~20.06~~	
Screened Interval	(feet)			
Pump Intake –	(feet)		24.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	11.7
Volume of Water in Well:	(gal)	1.9
Pumping Rate of Pump:	(~~gal~~/min)	0.14
PumpStart: 1632	Pump Stop:	1702
Minutes of Pumping:		30
Total Volume Removed:	0 (~~gal~~)	4.3 L

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑ ☐
Sample ID: MW-12A
Sample Time: 1707
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ _____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1637	1642	1647	1652	1657	1702			
Rate (ml/min)	0.14	0.14	0.14	0.14	0.14	0.14			
Depth to Water (ft. TOC)	18.15	19.90 DB	18.10	18.15	18.19	18.16			
Temperature (°C)	22.83	19.90	19.12	18.92	18.78	18.58			
pH	5.23	4.69	4.50	4.60	4.62	4.66			
Conductance (mS/cm)	0.058	0.050	0.049	0.049	0.049	0.048			
Dissolved Oxygen mg/L)	7.60	3.29	2.55	2.49	2.47	2.39			
Turbidity (NTU)	5.62	1.90	2.00	1.73	1.60	1.59			
ORP (mV)	92.2	132.1	155.6	159.4	165.8	170.3			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 2: DTW = 18.11

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☐ UPS ☐ Other ☐

Sample was shipped day of sampling ☐ picked up on ☐

Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Aftermen
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jolder
Job Number: E040957580
Weather: 930

Event: GW Sampling Event - Summer 2015
Well ID: MW-13R
Date: 7/15/15
Time In: 1330 Time Out: 1419

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		8.35	
Total Depth	(feet)		24.32	
Screened Interval	(feet)		14-24	
Pump Intake –	(feet)		16.33	

check where appropriate
Well Type: Flush-mount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	15.97
Volume of Water in Well:	(gal)	2.6
Pumping Rate of Pump:	(mL/min)	400
Pump Start: 1340	Pump Stop:	1411
Minutes of Pumping:		22
Total Volume Removed: 0	(ml)	8800

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Well Stability

pH	DO	Cond.	ORP	Temp
±0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-13R
Sample Time: 1409
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☑	Bladder ☐	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☑	Bladder ☐	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time	1	2	3	4	5	6	7	8	9
Parameter	1344	1349	1354	1358	1403	1408			
Rate (ml/min)	400	400	400	400	400	400			
Depth to Water (ft. TOC)	8.42	8.44	8.44	8.44	8.44	8.44			
Temperature (°C)	24.85	23.74	23.24	23.20	23.19	23.17			
pH	5.01	3.94	3.45	4.96	4.95	4.82			
Conductance (mS/cm)	0.068	0.064	0.063	0.070	0.074	0.077			
Dissolved Oxygen (mg/L)	3.00	1.07	1.26	1.31	1.30	1.33			
Turbidity (NTU)	4.9	3.2	4.15	2.7	2.4	2.1			
ORP (mV)	403.5	384.5	344.3	325.2	319.7	320.2			

Time	10	11	12
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Helon
Decontamination Fluids Used: D. H2O, AIR
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: ____ Sample was ☐ shipped day of sampling ☐ picked up on
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____ Chain of Custody Signed By: ____

SAMPLING LOG

Client/Project	Ashland - Alterman
Site Location:	Jonesboro, GA
Sampling Personnel:	Chris Eagley
Job Number:	E040957580
Weather:	Sunny, 95° F
Event:	GW Sampling Event - Summer 2015
Well ID:	MW-138
Date:	7/14/15
Time In:	
Time Out:	

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		8.85	
Total Depth	(feet)		71.20	
Screened Interval	(feet)			
Pump Intake ~	(feet)		42.00	

check where appropriate

Well Type:	Flushmount	☑	Stick-Up	☐
Well Locked:	Yes	☑	No	☐
Measuring Point Marked:	Yes	☑	No	☐
Well Diameter:	1"	☐	2" ☑	Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	63.35
Volume of Water in Well:	(gal)	10.16
Pumping Rate of Pump:	(mL/min)	0.16
PumpStart: 1055	Pump Stop:	1125
Minutes of Pumping:		30
Total Volume Removed: 0 (mL)		4.8 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: Dissolved Gases		☑

Sample ID: MW-138
Sample Time: 1125
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer	☐	Peristaltic	☐	Bladder ☑	Other Pump ☐
Tubing Used:	Teflon	☑	Polyethylene	☐		
Sampling Method:	Bailer	☐	Peristaltic	☐	Bladder ☑	Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	10.55	1100	1105	1110	1115	1120			
Rate (ml/min)	0.16	0.16	0.16	0.16	0.16	0.16			
Depth to Water (ft. TOC)	8.85	8.90	9.90	8.82	8.89	8.85			
Temperature (°C)	26.58	23.89	23.44	23.65	23.52	23.87			
pH	7.32	6.02	6.29	6.20	6.17	6.15			
Conductance (mS/cm)	0.159	0.149	0.146	0.145	0.144	0.144			
Dissolved Oxygen mg/L)	5.57	4.70	3.90	3.46	3.22	3.23			
Turbidity (NTU)	8.00	8.74	7.32	9.18	8.27	9.38			
ORP (mV)	20.0	28.4	36.9	38.8	40.3	41.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI Water
DI w/ AA

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

Sample was ☐ shipped day of sampling ☐ picked up on

Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Afterman
Site Location:	Jonesboro, GA
Sampling Personnel:	Chris Bagley
Job Number:	E040957580
Weather:	Sunny, 95°F

Event:	GW Sampling Event - Summer 2015
Well ID:	MW-13C
Date:	7/14/15
Time In:	Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		8.62	
Total Depth	(feet)		87.90	
Screened Interval	(feet)			
Pump Intake ~	(feet)		80.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	79.28
Volume of Water in Well:	(gal)	12.92
Pumping Rate of Pump:	(mL/min)	0.09
PumpStart: 1002	Pump Stop: 1032	
Minutes of Pumping:		30
Total Volume Removed: 0 (gal)		2.7 L

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑
Sample ID: MW-13C
Sample Time: 1032
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1002	1007	1012	1017	1022	1027			
Rate (ml/min)	0.09	0.09	0.09	0.09	0.09	0.09			
Depth to Water (ft. TOC)	8.40	8.95	9.45	9.83	10.12	10.31			
Temperature (°C)	27.68	25.26	25.60	25.82	25.56	25.38			
pH	8.17	9.09	9.08	9.12	9.16	9.18			
Conductance (mS/cm)	0.154	0.135	0.136	0.136	0.137	0.137			
Dissolved Oxygen mg/L)	4.93	2.04	1.27	1.10	1.05	0.97			
Turbidity (NTU)	2.93	2.26	3.60	3.14	4.80	3.68			
ORP (mV)	33.6	30.7	32.5	29.5	27.1	26.8			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: ____ Sample was ☐ shipped day of sampling Chain of Custody Signed By: ____
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other ____ ☐ picked up on ____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 85°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-14A
Date: 7/2/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		24.81	
Total Depth	(feet)		35.65	
Screened Interval	(feet)			
Pump Intake ~	(feet)		31.0	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.84
Volume of Water in Well:	(gal)	1.76
Pumping Rate of Pump:	(mL/min)	0.125
PumpStart: 1252	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed: 0		

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑
Sample ID: MW-14A
Sample Time: 1342
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 60

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1257	1302	1307	1312	1317	1322	1327	1332	1337
Rate (ml/min)	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Depth to Water (ft. TOC)	24.70	24.69	24.80	24.68	24.70	24.76	24.65	24.62	
Temperature (°C)	25.40	22.80	21.58	22.64	23.49	23.26	24.34	25.06	25.22
pH	6.21	4.60	4.31	4.45	4.66	4.62	4.71	4.81	4.81
Conductance (mS/cm)	0.076	0.068	0.070	0.080	0.087	0.092	0.098	0.099	0.03
Dissolved Oxygen mg/L)	14.26	12.29	11.82	11.47	10.98	11.21	10.25	9.92	9.65
Turbidity (NTU)	14.2	6.95	12.1	4.41	3.91	4.92	2.55	1.62	2.64
ORP (mV)	8.5	79.1	122.2	130.8	131.4	147.9	154.8	155.4	160.6

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Keck

Decontamination Fluids Used: DI water
DI w/ Alc.

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Alterman
Site Location:	Jonesboro, GA
Sampling Personnel:	Chris Begley
Job Number:	E040967580
Weather:	Sunny, 90°F

Event:	GW Sampling Event - Summer 2015
Well ID:	MW-15A
Date:	07/15/15
Time In:	Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.30	
Total Depth	(feet)		37.65	
Screened Interval	(feet)			
Pump Intake ~	(feet)		30.00	

check where appropriate

Well Type:	Flushmount	✓	Stick-Up	
Well Locked:	Yes	✓	No	
Measuring Point Marked:	Yes	✓	No	
Well Diameter:	1"		2" ✓	Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	18.35
Volume of Water in Well:	(gal)	2.99
Pumping Rate of Pump:	(mL/min)	0.125
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L =3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☐
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-15A
Sample Time: 1213
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ✓
Duplicate ID:
Total Bottles: 30

EVACUATION INFORMATION

Evacuation Method:	Bailer	☐	Peristaltic	☐	Bladder ✓	Other Pump ☐
Tubing Used:	Teflon	✓	Polyethylene	☐		
Sampling Method:	Bailer	☐	Peristaltic	☐	Bladder ✓	Other Pump ☐

Did well go dry? Yes ☐ No ✓ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1138	1143	1148	1153	1158	1203	1208		
Rate (ml/min)	0.125	0.125	0.125	0.125	0.125	0.125	0.125		
Depth to Water (ft. TOC)	19.30	19.25	19.25	19.25	19.25	19.23	19.25		
Temperature (°C)	29.34	24.13	22.88	23.80	23.94	23.48	23.07		
pH	5.18	5.07	5.22	5.22	5.11	5.10	5.16		
Conductance (mS/cm)	0.114	0.089	0.085	0.087	0.087	0.086	0.085		
Dissolved Oxygen mg/L)	5.53	1.44	0.61	0.47	0.37	0.33	0.31		
Turbidity (NTU)	51.9	7.64	0.94	2.87	1.33	0.55	1.12		
ORP (mV)	67.1	60.9	51.8	53.0	59.2	61.0	61.6		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-15B
Date: 7/15/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		19.25	
Total Depth	(feet)		48.77	
Screened Interval	(feet)			
Pump Intake ~	(feet)		40.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	28.52
Volume of Water in Well:	(gal)	4.65
Pumping Rate of Pump:	mL/min	0.14
PumpStart: 1009	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed: 0	(mL)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	±1 mg/L	±5.0%	±10%	±5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☐
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ☐
☐
Sample ID: MW-15B
Sample Time: 1039
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 18

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1009	1014	1019	1024	1029	1034			
Rate (ml/min)	0.14	0.14	0.14	0.14	0.14	0.14			
Depth to Water (ft. TOC)	19.25	19.20	19.20	19.25	19.25	19.25			
Temperature (°C)	27.70	23.68	23.08	22.90	23.99	23.92			
pH	7.00	5.86	5.77	5.81	5.83	5.81			
Conductance (mS/cm)	0.183	0.147	0.145	0.144	0.148	0.146			
Dissolved Oxygen mg/L)	7.05	4.76	4.19	3.89	3.59	3.68			
Turbidity (NTU)	36.4	85.1	183	784	156	21.2			
ORP (mV)	66.8	61.1	59.8	58.1	58.0	59.6			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: ~~DI water~~ Horn
~~DI w/ Alla Cs~~

Decontamination Fluids Used:
DI water
DI w/ Alla

Sample Observations:
13 bottles to Test Amer.
5 bottles to Microseeps

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 92°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-15C
Date: 07/15/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		25.55	
Total Depth	(feet)		69.79	
Screened Interval	(feet)			
Pump Intake ~	(feet)		55.00	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	44.24
Volume of Water in Well:	(gal)	7.21
Pumping Rate of Pump:	(L/min)	0.125
PumpStart: 0824	Pump Stop:	0854
Minutes of Pumping:		30
Total Volume Removed: 0	(L)	3.75 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☐
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ☐
☐
Sample ID: MW-15C
Sample Time: 0854
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☑ No ☐
Duplicate ID: DUP-2
Total Bottles: 21

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	0824	0829	0834	0839	0844	0849			
Rate (ml/min)	0.125	0.125	0.125	0.125	0.125	0.125			
Depth to Water (ft. TOC)	26.43	27.00	27.89	28.85	29.39	30.05			
Temperature (°C)	24.57	23.23	23.48	23.69	24.79	25.46			
pH	7.15	9.96	10.05	10.24	10.26	10.32			
Conductance (mS/cm)	0.468	0.271	0.294	0.305	0.314	0.320			
Dissolved Oxygen mg/L)	10.85	3.67	3.02	2.55	2.27	2.28			
Turbidity (NTU)	10.06	4.44	4.31	2.92	2.39	2.91			
ORP (mV)	130.5	122.9	126.0	123.9	120.8	116.7			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:
Analytical Methods:
8260C, AM20GAX 9056, 6010B/6020, SM5500 FE B, 9030B/9034, AM23G, 9060A

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Drawdown: exceeded 3 ft

DUP-2

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Sorden
Job Number: ED40957580
Weather: 92°

Event: GW Sampling Event - Summer 2015
Well ID: MW-16A
Date: 7/15/15
Time In: 0945 Time Out: 1123

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		10.99	
Total Depth	(feet)		32.57	
Screened Interval	(feet)		20-30	
Pump Intake ~	(feet)		21.75	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	21.57
Volume of Water in Well:	(gal)	3.51
Pumping Rate of Pump:	(mL/min)	200
PumpStart: 0953	Pump Stop:	1118
Minutes of Pumping:		71
Total Volume Removed: 0	(ml)	14200

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Instability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ☐
☐
Sample ID: MW-16A
Sample Time: 1022
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 30

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	0956	1001	1006	1011	1016	1021			
Rate (ml/min)	200	200	200	200	200	200			
Depth to Water (ft. TOC)	11.35	11.62	11.57	11.57	11.57	11.57			
Temperature (°C)	21.21	21.04	21.31	21.24	22.22	21.18			
pH	5.59	5.25	5.09	5.48	5.56	5.57			
Conductance (mS/cm)	0.014	0.103	0.103	0.102	0.101	0.100			
Dissolved Oxygen (mg/L)	1.72	0.60	1.43	1.85	1.54	1.45			
Turbidity (NTU)	3.7	3.2	2.9	3.5	2.6	3.9			
ORP (mV)	294.7	313.7	323.9	301.2	296.7	294.6			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O, Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alderman
Site Location: Jonesboro, GA
Sampling Personnel: Edelin Jordan
Job Number: E040957580
Weather: 90°

Event: GW Sampling Event - Summer 2015
Well ID: MW-16B
Date: 7/15/15
Time In: 0815 Time Out: 9:40

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		11.05	
Total Depth	(feet)		43.44	
Screened Interval	(feet)		34-44	
Pump Intake –	(feet)		27.24	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	32.39
Volume of Water in Well:	(gal)	5.17
Pumping Rate of Pump:	(mL/min)	400
PumpStart: 0819	Pump Stop:	0930
Minutes of Pumping:		71
Total Volume Removed: 0	(ml)	28400

Conversion Factors:

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Stabilization

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: ☐ ☐ ☐
Sample ID: MW-16B
Sample Time: 0854
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 36

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	0823	0828	0833	0838	0843	0848	0853		
Rate (ml/min)	400	400	400	400	400	400	400		
Depth to Water (ft. TOC)	11.15	11.15	11.15	11.15	11.15	11.15	11.15		
Temperature (°C)	20.51	20.47	20.48	20.95	20.86	20.85	20.80		
pH	5.27	3.13	3.24	4.54	5.36	5.68	5.73		
Conductance (mS/cm)	0.148	0.139	0.137	0.137	0.137	0.136	0.136		
Dissolved Oxygen (mg/L)	4.44	4.00	10.10	1000	10.31	10.56	10.77		
Turbidity (NTU)	4.9	3.6	4.7	3.2	2.9	3.1	2.6		
ORP (mV)	292.3	444.3	433.6	354.2	325.9	309.7	308.7		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O
Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90° F
Event: GW Sampling Event - Summer 2015
Well ID: MW-16C
Date: 07/15/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		13.05	
Total Depth	(feet)		68.12	
Screened Interval	(feet)			
Pump Intake --	(feet)		55.0	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	55.07
Volume of Water in Well:	(gal)	8.98
Pumping Rate of Pump:	(mL/min)	0.14
PumpStart: 1333	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☐
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ☐
☐
Sample ID: MW-16C
Sample Time: 1432 1433 CB
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles:

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Did well go dry?	Yes ☐	No ☑	Water Quality Meter Type:	YSI 556		

Time / Parameter	1	2	3	4	5	6	7	8	9
	1333	1338	1343	1348	1353	1358	1403	1408	1413
Rate (ml/min)	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14
Depth to Water (ft. TOC)	13.05	13.22	13.26	13.32	13.41	13.50	13.55	13.58	13.68
Temperature (°C)	32.60	24.77	24.96	24.32	24.99	25.12	24.36	24.20	23.52
pH	6.32	6.37	6.38	6.08	6.19	6.23	6.22	6.22	6.21
Conductance (mS/cm)	0.081	0.087	0.090	0.092	0.096	0.103	0.112	0.123	0.140
Dissolved Oxygen mg/L)	5.38	1.95	0.73	0.45	0.36	0.31	0.28	0.23	0.22
Turbidity (NTU)	4.10	2.03	1.95	0.52	0.58	2.20	2.87	0.12	1.40
ORP (mV)	86.3	68.6	59.5	67.1	54.3	46.1	42.5	41.8	40.1

Time / Parameter	10	11	12
	1418	1423	1428
Rate (ml/min)	0.14	0.14	0.14
Depth to Water (ft. TIC)	13.70	13.80	13.86
Temperature (°C)	23.52	23.86	23.40
pH	6.26	6.32	6.32
Conductance (mS/cm)	0.158	0.166	0.16
Dissolved Oxygen mg/L)	0.55	0.69	0.72
Turbidity (NTU)	0.08	2.69	0.82
ORP (mV)	33.6	30.7	32.0

Water Level Equipment Used: Horn

Decontamination Fluids Used: DI Water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

ORP & Conductivity would not stabilize within the given limits

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Allerman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jordan
Job Number: EG40957580
Weather: 78° Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-17A
Date: 7/14/15
Time In: 1054 Time Out: 1152

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		22.54	
Total Depth	(feet)		29.86	
Screened Interval	(feet)		20-30	
Pump Intake ~	(feet)		26.72	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☐ No ☑
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	7.27
Volume of Water in Well:	(gal)	1.18
Pumping Rate of Pump:	(mL/min)	~200
PumpStart: 1105	Pump Stop:	1145
Minutes of Pumping:		37
Total Volume Removed: 0	(ml)	7.4

Conversion Factors

gallons per foot of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gas ☐
Sample ID: MW-17A
Sample Time: 1144
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ _____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☑ Bladder ☐ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	1113	1118	1123	1128	1133	1138	1143		
Rate (ml/min)	.2	.2	.2	.2	.2	.2	.2		
Depth to Water (ft TOC)	23.19	23.21	23.21	23.21	23.21	23.21	23.21		
Temperature (°C)	21.49	20.98	20.91	20.88	20.92	20.91	20.87		
pH	3.82	3.06	3.47	3.59	3.71	3.79	3.83		
Conductance (mS/cm)	0.611	0.336	0.282	0.312	0.334	0.343	0.349		
Dissolved Oxygen (mg/L)	13.37	15.81	15.77	15.93	16.35	16.39	16.34		
Turbidity (NTU)	19.2	10.7	13.9	6.2	5.9	6.7	5.2		
ORP (mV)	924.8	971.2	948.0	943.0	938.3	935.0	935.0		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O, AIK
Sample Observations: Purple water

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: _____ Sample was ☐ shipped day of sampling ☐ picked up on
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other _____
Chain of Custody Signed By: _____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957680
Weather: 60 - Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW 18A
Date: 7-2-15
Time In: 1220 Time Out: 1500

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		17.65	
Total Depth	(feet)		30.11	
Screened Interval	(feet)			
Pump Intake ~	(feet)		22	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	12.46
Volume of Water in Well:	(gal)	0.2 0.36
Pumping Rate of Pump:	L/min ~~(mL/min)~~	0.25 0.25
PumpStart: 1225	Pump Stop:	1500
Minutes of Pumping:	35	
Total Volume Removed:	0 ~~(mL)~~ L	8.75

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
Other: Dissolved ☐
Sulfide ☐
Sample ID: 1250
Sample Time: 7-2-15
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ___
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ ___

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1225	1230	1235	1240	1245	1250			
Rate (ml/min) L/min	0.25	0.25	0.25	0.25	0.25	0.25			
Depth to Water (ft. TOC)	16.78	17.30	18.18	19.10	19.60	20.22			
Temperature (°C)	22.60	22.46	22.43	22.53	22.63	22.63			
pH	4.77	4.63	4.69	4.75	4.75	4.77			
Conductance (mS/cm)	0.070	0.068	0.069	0.069	0.069	0.070			
Dissolved Oxygen mg/L	1.49	1.36	1.26	1.51	1.53	1.56			
Turbidity (NTU)	6.87	1.47	0.77	0.56	3.95	0.71			
ORP (mV)	192.6	190.2	188.8	188.9	189.6	193.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. O.I

Decontamination Fluids Used: D.I. water
D.I. water w/ 1% AP

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Located Pump Pair I can See
Su dropping very fast

SAMPLE DESTINATION
Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐
Sample was shipped day of sampling ☐ picked up on ☑
Chain of Custody Signed By: Daniel Kelly

SAMPLING LOG

Client/Project	Ashland - Alterman
Site Location:	Jonesboro, GA
Sampling Personnel:	DK
Job Number:	E040957580
Weather:	93°F Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-18B
Date: 7-2-15
Time In: 1110 Time Out: 1200

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		17.05	
Total Depth	(feet)		52.04	
Screened Interval	(feet)			
Pump Intake ~	(feet)		30	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	34.99
Volume of Water in Well:	(gal)	0.40
Pumping Rate of Pump:	L/min (gal/min)	0.25
PumpStart: 1114	Pump Stop:	1150
Minutes of Pumping:		36
Total Volume Removed:	0 (ml) L	7.75

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	±1 mg/L	±5.0%	±10%	±5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved ☐
5 metals ☐
Sample ID:
Sample Time: 1145
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☑ No ☐
Duplicate ID:
Total Bottles: 9

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	
Did well go dry?	Yes ☐	No ☑	Water Quality Meter Type:	YSI 556 MPS	

Time / Parameter	1	2	3	4	5	6	7	8	9
	1115	1120	1125	1130	1135	1140			
Rate (ml/min) L/m	0.25	0.25	0.25	0.25	0.25	0.25			
Depth to Water (ft. TOC)	17.86	17.91	18.25	18.50	18.57	18.53			
Temperature (°C)	21.98	21.95	21.61	21.48	21.47	21.47			
pH	5.59	5.61	5.62	5.64	5.61	5.61			
Conductance (mS/cm)	0.144	0.143	0.143	0.143	0.141	0.141			
Dissolved Oxygen mg/L	3.86	3.56	3.46	3.88	4.04	4.15			
Turbidity (NTU)	1.65	1.81	2.77	3.33	5.65	6.86			
ORP (mV)	174.6	159.5	158.2	160.5	163.1	163.0			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. Oil
Decontamination Fluids Used: DI water
DI water with Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☑ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☑ picked up on
Chain of Custody Signed By: Daniel Rivera

Hold DK Dup-01

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DK
Job Number: E040957580
Weather: 84 Cloudy

Event: GW Sampling Event - Summer 2015
Well ID: MW-19A
Date: 7-1-15
Time In: 1550 Time Out: 1630

check where appropriate
Well Type: Flushmount ✓ Stick-Up
Well Locked: Yes ✓ No
Measuring Point Marked: Yes ✓ No
Well Diameter: 1" 2" ✓ Other:

WELL INFORMATION		TIC	TOC	BGS
Depth to Water	(feet)		12.21	
Total Depth	(feet)		34.20	
Screened Interval	(feet)			
Pump Intake –	(feet)		23	

WELL WATER INFORMATION		
Length of Water Column:	(feet)	21.99
Volume of Water in Well:	(gal)	3.58
Pumping Rate of Pump:	L/min ~~(ml/min)~~	0.25
PumpStart: 1605	Pump Stop:	1630
Minutes of Pumping:	30	
Total Volume Removed:	0 (ml) L	9.0

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	±1 mg/L	±5.0%	±10%	±5%

SAMPLING INFORMATION
Analyses: ✓
VOC 8260
Metals 6010
Inorganics Various
Other: Alkalinity, Sulfide, Sulfate
Sample ID:
Sample Time: 1630
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ✓
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION
Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ✓ Other Pump ☐
Tubing Used: Teflon ✓ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ✓ Other Pump ☐
Did well go dry? Yes ☐ No ✓
Water Quality Meter Type: YSI 556 MPS

	1	2	3	4	5	6	7	8	9
Time	0.25	0.25	0.25	0.25	0.25	0.25	0.25		
Parameter	1555	1600	1605	1610	1615	1620	1625		
Rate (ml/min), L/min	13.51	14.68	15.25	15.71	16.15	16.80	17.26		
Depth to Water (ft. TOC)	23.88	23.64	23.55	23.58	23.54	23.38	23.38		
Temperature (°C)	5.17	4.96	4.82	4.57	5.16	5.20	5.21		
pH	0.073	0.071	0.069	0.062	0.063	0.063	0.064		
Conductance (mS/cm)	0.454	0.86	4.23	1.61	9.46	4.48	4.56		
Dissolved Oxygen mg/L)	2.41	2.60	2.01	0.55	1.66	0.81	1.14		
Turbidity (NTU)	56.5	60.7	48.0	35.7	27.2	28.5	22.9		
ORP (mV)									

	10	11	12
Time			
Parameter			
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H2O 0.1
Decontamination Fluids Used: DI water
0.1% water with AHF
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS
* pumping as slow as I can
water dripping fast

SAMPLE DESTINATION
Laboratory:
Shipped Via: ✓ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ✓ picked up on 7-2-15
Chain of Custody Signed By: Derek Ishee

Hold

SAMPLING LOG

Client/Project: Ashland - Altamaha
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jolden
Job Number: E040957580
Weather: 90°

Event: GW Sampling Event - Summer 2015
Well ID: MW-19B
Date: 7/14/15
Time In: 1430 Time Out: 1518

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.34	
Total Depth	(feet)		61.18	
Screened Interval	(feet)		47-57	
Pump Intake –	(feet)		36.78	

check where appropriate
Well Type: Flush-mount ☑ Stick-Up ☐
Well Locked: Yes ☐ No ☑
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	48.79
Volume of Water in Well:	(gal)	7.95
Pumping Rate of Pump:	(mL/min)	250
PumpStart: 1440	Pump Stop:	1516
Minutes of Pumping:		36
Total Volume Removed: 0	(ml)	9000

Conversion Factors

gallons per feet	1" ID	2" ID	4" ID	6" ID
of water column	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
±0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☑	Bladder ☑	Other Pump ☐	
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☑	Bladder ☑	Other Pump ☐	

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved CH4 S ☐
Sample ID: MW-19B
Sample Time: 1515
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☑ No ☐
Duplicate ID: DUP-1
Total Bottles: 9

Time / Parameter	1	2	3	4	5	6	7	8	9
	1445	1450	1455	1500	1505	1510			
Rate (ml/min)	250	250	250	250	250	250			
Depth to Water (ft. TOC)	13.50	14.00	13.78	13.69	13.68	13.69			
Temperature (°C)	26.11	24.64	25.17	25.46	25.54	25.25			
pH	5.70	5.50	5.50	5.45	5.50	5.48			
Conductance (mS/cm)	0.089	0.086	0.084	0.083	0.082	0.081			
Dissolved Oxygen (mg/L)	~~3.77~~	2.08	1.02	0.84	0.79	0.75			
Turbidity (NTU)	1.8	.2	2.3	.3	.1	.2			
ORP (mV)	258.2	280.4	284.2	287.7	288.9	292.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI; H2O; MeOH
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Dup-1

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Afterman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jackson
Job Number: E040957580
Weather: 590

Event: GW Sampling Event - Summer 2015
Well ID: MW-19C
Date: 7/14/15
Time In: 1330 Time Out: 1432

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.09	
Total Depth	(feet)		84.88	
Screened Interval	(feet)		75-85	
Pump Intake ~	(feet)		48.45	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	72.79
Volume of Water in Well:	(gal)	11.86
Pumping Rate of Pump:	(mL/min)	600
PumpStart: 1349	Pump Stop:	1427
Minutes of Pumping:		76
Total Volume Removed: 0	(ml)	38000

Conversion Factors

gallons per foot of water column	1" ID	2" ID	4" ID	5" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Stability

pH	DO	Cond.	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gas ☐
Sample ID: MW-19C
Sample Time: 1422
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ _____
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐ _____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	1356	1401	1406	1411	1416	1421			
Rate (ml/min)	500	500	500	500	500	500			
Depth to Water (ft. TOC)	12.15	12.15	12.15	12.15	12.15	12.15			
Temperature (°C)	27.04	25.96	25.49	25.48	25.52	25.48			
pH	7.97	7.86	7.91	7.84	7.69	7.70			
Conductance (mS/cm)	0.188	0.187	0.187	0.187	0.188	0.187			
Dissolved Oxygen (mg/L)	14.42	0.90	0.41	0.33	0.98	1.01			
Turbidity (NTU)	7.8	6.2	7.4	3.2	2.5	2.3			
ORP (mV)	149.3	149.4	144.4	146.1	149.0	149.2			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen (mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI H2O, Alk
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: _____ Sample was ☐ shipped day of sampling ☐ picked up on
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other _____ Chain of Custody Signed By: _____

SAMPLING LOG

Client/Project: Ashland - Alleman
Site Location: Jonesboro, GA
Sampling Personnel: Eddie Jarlier
Job Number: E040857560
Weather: 95° Sunny

Event: GW Sampling Event - Summer 2015
Well ID: MW-19D
Date: 7/14/15
Time In: Time Out:

WELL INFORMATION

		BC	TOC	BGS
Depth to Water	(feet)		12.21	
Total Depth	(feet)		105.7	
Screened Interval	(feet)		93-105	
Pump Intake ~	(feet)		59.99	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	93.49
Volume of Water in Well:	(gal)	15.24
Pumping Rate of Pump:	(mL/min)	140
Pump Start: 1539	mp Stop:	16 1604
Minutes of Pumping:		30
Total Volume Removed: 0	(ml)	4200

Conversion Factors

gallons per foot	1" ID	2" ID	4" ID	6" ID
of water column:	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Use Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/l	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analytes:

Voc	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: Dissolved Gas		☐
		☐

Sample ID:
Sample Time:
MS/MSD: Yes ☐ No ☑
Duplicate: Yes ☐ No ☑
Duplicate ID: N/A
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method: Bailer ☐ Peristaltic ☐ Bladder ☑ Other Pump ☐
Tubing Used: Teflon ☑ Polyethylene ☐
Sampling Method: Bailer ☐ Peristaltic ☐ Bladder ☐ Other Pump ☐
Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI

Time / Parameter	1	2	3	4	5	6	7	8	9
	1539	1544	1549	1554	1604				
Rate (ml/min)	140	140	140	140	140				
Depth to Water (ft. TOC)	12.40	13.84	14.75	15.55	16.60				
Temperature (°C)	29.20	26.84	26.64	26.71	26.55				
pH	6.88	8.11	8.13	7.81	7.48				
Conductance (mS/cm)	0.048	0.063	0.064	0.063	0.064				
Dissolved Oxygen mg/L)	4.73	0.78	0.66	0.58	0.49				
Turbidity (NTU)	12.4	13.4	10.4	12.5	10.2				
ORP (mV)	270.9	216.2	203.0	205.6	211.7				

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron
Decontamination Fluids Used: DI, Air
Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS
Drawdown exceeded 3 ft

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-20C
Date: 7/2/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		16.54	
Total Depth	(feet)		44.88	
Screened Interval	(feet)			
Pump Intake ~	(feet)		32.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	28.34
Volume of Water in Well:	(gal)	4.62
Pumping Rate of Pump:	(gal/min)	0.09
PumpStart: 1522	Pump Stop:	1552
Minutes of Pumping:		30
Total Volume Removed: 0 (gal)		2.7 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases ☑ ☐
Sample ID: MW-20C
Sample Time: 1557
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1527	1532	1537	1542	1547	1552			
Rate (ml/min)	0.09	0.09	0.09	0.09	0.09	0.09			
Depth to Water (ft. TOC)	16.85	17.30	17.62	18.05	18.34	18.55			
Temperature (°C)	24.86	25.57	24.62	23.07	23.14	23.12			
pH	6.60	6.49	6.52	6.59	6.66	6.73			
Conductance (mS/cm)	0.194	0.199	0.195	0.188	0.189	0.187			
Dissolved Oxygen mg/L)	13.96	13.21	14.46	15.35	14.68	14.59			
Turbidity (NTU)	2.48	1.31	2.26	0.91	1.27	0.58			
ORP (mV)	123.7	131.1	129.8	127.2	122.4	118.4			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Alterman	Event:	GW Sampling Event - Summer 2015
Site Location:	Jonesboro, GA	Well ID:	MW-210
Sampling Personnel:	DS	Date:	9-1-15
Job Number:	E04095780	Time In:	1050 Time Out: 1140
Weather:	78° Cloudy		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.55	
Total Depth	(feet)		39.04	
Screened Interval	(feet)			
Pump Intake ~	(feet)		25	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	26.49
Volume of Water in Well:	(gal)	4.40
Pumping Rate of Pump:	L/min (mL/min)	0.33
PumpStart: 10:54	Pump Stop:	11:34
Minutes of Pumping:		40
Total Volume Removed: 0	(ml) L	13.2

Conversion Factors

gallons per foot of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: ____		☐
		☐

Sample ID: MW-210
Sample Time: 1120
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	____
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	____
Did well go dry?	Yes ☐	No ☑	Water Quality Meter Type:	YSI 556 MPS	

Time / Parameter	1	2	3	4	5	6	7	8	9
	1035	1100	1105	1110	1115	1120			
Rate (ml/min) 4 L/min =	0.33	0.33	0.33	0.33	0.33	0.33			
Depth to Water (ft. TOC)	13.45	14.06	14.18	14.29	14.37	14.49			
Temperature (°C)	21.35	21.22	21.22	21.14	21.20	21.18			
pH	4.51	4.42	4.44	4.52	4.55	4.53			
Conductance (mS/cm)	0.068	0.035	0.035	0.034	0.034	0.033			
Dissolved Oxygen mg/L	9.57	9.33	9.18	8.88	8.99	8.79			
Turbidity (NTU)	6.11	2.04	1.09	0.91	0.77	0.64			
ORP (mV)	316.3	314	292.2	288.1	284.3	284.1			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. Oil

Decontamination Fluids Used: DI Water
DI Water with Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory: Test America
Shipped Via: ☑ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☑ picked up on
Chain of Custody Signed By: Daniel Wilcox 9-1-15

L1

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: DJS
Job Number: E040957580
Weather: 78° Cloudy

Event: GW Sampling Event - Summer 2015
Well ID: MW-21C
Date: 7-1-15
Time In: 1145 Time Out: 1235

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		14.19	
Total Depth	(feet)		24.81	
Screened Interval	(feet)			
Pump Intake ~	(feet)		45	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	10.62
Volume of Water in Well:	(gal)	1.69
Pumping Rate of Pump:	L/min (ml/min)	0.33
PumpStart: 1145	Pump Stop:	1230
Minutes of Pumping:		45
Total Volume Removed:	0 (ml) L	14.85

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: ____ ☐
☐
Sample ID: MW-21C
Sample Time: 1230
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	____
Tubing Used:	Teflon ☑	Polyethylene ☐			
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐	____

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: YSi 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1145	1150	1155	1200	1205	1210	1215	1220	1225
Rate (ml/min)	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Depth to Water (ft. TOC)	14.90	18.05	18.85	20.24	20.65	21.03	21.46	21.82	22.26
Temperature (°C)	21.30	21.33	21.32	21.32	21.33	21.32	21.34	21.31	21.37
pH	7.14	6.29	6.28	4.87	5.35	5.56	7.32	7.41	7.49
Conductance (mS/cm)	0.166	0.167	0.167	0.169	0.168	0.169	0.169	0.169	0.169
Dissolved Oxygen mg/L)	49.4	5.77	7.17	7.31	7.39	7.32	7.40	7.40	7.41
Turbidity (NTU)	1.33	1.14	1.33	0.77	1.90	1.87	0.32	0.44	0.75
ORP (mV)	202.4	496.8	294.7	315.0	294.2	411.6	197.2	209.3	200.1

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. O.1

Decontamination Fluids Used: D: water
D: water with ALK

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Water dropping fast
pumping as slow as possible

SAMPLE DESTINATION
Laboratory: Test America
Shipped Via: Federal Express ☑ UPS ☐ Other ____
Sample was shipped day of sampling ☐ picked up on ☑
Chain of Custody Signed By: Daniel Kinsel 7-1-15

SAMPLING LOG

Client/Project	Ashland - Alterman	Event:	GW Sampling Event - Summer 2015
Site Location:	Jonesboro, GA	Well ID:	MW-22A
Sampling Personnel:	Chris Bagley	Date:	6/30/2015
Job Number:	E040957580	Time In:	Time Out:
Weather:	Sunny, 86°F		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.37	
Total Depth	(feet)		29.60	
Screened Interval	(feet)			
Pump Intake ~	(feet)		3.0	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	20.23
Volume of Water in Well:	(gal)	3.3
Pumping Rate of Pump:	(mL/min)	0.2
PumpStart: 1342	Pump Stop:	1412
Minutes of Pumping:		30
Total Volume Removed: 0 (mL)		6.0 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-22A
Sample Time: 14/15
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Did well go dry?	Yes ☐	No ☑	Water Quality Meter Type:	YSI 556 MPS		

Time / Parameter	1	2	3	4	5	6	7	8	9
	1347	1352	1357	1402	1407	1412			
Rate (mL/min)	0.2	0.2	0.2	0.2	0.2	0.2			
Depth to Water (ft. TOC)	10.36 CB	10.37 CB	10.40	10.41	10.42	10.42			
Temperature (°C)	17.06	16.70	16.60	16.60	16.45	16.41			
pH	4.22	3.82	3.90	3.93	4.04	4.09			
Conductance (mS/cm)	0.031	0.024	0.023	0.023	0.022	0.022			
Dissolved Oxygen mg/L)	8.68	5.52	4.11	3.76	3.32	3.00			
Turbidity (NTU)	3.28	1.93	1.65	1.68	1.79	1.72			
ORP (mV)	124.3	149.1	146.4	149.6	144.6	146.7			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron Interface Probe

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Time 1: DTW = 10.36
Time 2: DTW = 10.37

SAMPLE DESTINATION

Laboratory: _____ Sample was ☐ shipped day of sampling Chain of Custody Signed By:

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other _____ ☐ picked up on _____

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 86°F

Event: GW Sampling Event - Summer 2015
Well ID: ~~22-08~~ MW-22B
Date: 6/30/2015
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		9.56	
Total Depth	(feet)		76.40	
Screened Interval	(feet)			
Pump Intake ~	(feet)		48.0	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	66.84
Volume of Water in Well:	(gal)	10.90
Pumping Rate of Pump:	~~L~~/min)	0.3
PumpStart: 1017	Pump Stop:	1452
Minutes of Pumping:		35
Total Volume Removed:	0 ~~L~~	9.0 L @ 10.5

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: MW-22B
Sample Time: 1455
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 3

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☑ Water Quality Meter Type: ~~CSM~~ YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1422	1427	1432	1437	1442	1447	1452		
Rate (~~L~~/min)	0.3	0.3	0.3	0.3	0.3	0.3	0.3		
Depth to Water (ft. TOC)	10.09	10.11	10.11	10.11	10.11	10.11	10.11		
Temperature (°C)	16.97	17.09	17.10	16.78	16.84	16.94	16.81		
pH	5.94	6.06	6.11	5.91	5.77	5.80	5.80		
Conductance (mS/cm)	0.097	0.104	0.158	0.153	0.153	0.153	0.151		
Dissolved Oxygen mg/L	8.04	6.78	6.66	6.37	6.41	6.35	6.34		
Turbidity (NTU)	2.18	2.97	1.95	2.23	2.35	1.88	1.37		
ORP (mV)	127.9	129.2	124.6	118.7	116.3	113.1	113.6		

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron Int. Probe

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Alterman	Event:	GW Sampling Event - Summer 2015
Site Location:	Jonesboro, GA	Well ID:	MW-23A
Sampling Personnel:	DK.	Date:	6.30.15
Job Number:	E040957580	Time In:	Time Out:
Weather:	90 F Sunny		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		12.74	
Total Depth	(feet)		19.15	
Screened Interval	(feet)			
Pump Intake ~	(feet)		16.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ____

WELL WATER INFORMATION

Length of Water Column:	(feet)	6.41
Volume of Water in Well:	(gal)	1.04
Pumping Rate of Pump:	L/min (mL/min)	0.33
PumpStart: 1731	Pump Stop:	1812
Minutes of Pumping:	40	
Total Volume Removed:	0 (ml) L	

Conversion Factors

gallons per feet of water column	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Did well go dry?	Yes ☐	No ☐	Water Quality Meter Type:			

SAMPLING INFORMATION

Analyses:

VOC	8260	☑
Metals	6010	☐
Inorganics	Various	☐
		☐
Other: Dissolved Gas		☐
		☐

Sample ID: MW-23A
Sample Time: 1810
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☑
Duplicate ID:
Total Bottles: 6

Time / Parameter	1	2	3	4	5	6	7	8	9
	1735	1740	1745	1750	1755	1800			
Rate (ml/min)	0.33								
Depth to Water (ft. TOC)	13.45	14.03	14.30	14.53	[illegible]	15.03			
Temperature (°C)	16.38	16.19	16.16	16.09	16.11	16.10			
pH	5.94	5.95	5.94	5.87	5.86	5.84			
Conductance (mS/cm)	0.225	0.226	0.219	0.204	0.200	0.197			
Dissolved Oxygen mg/L	8.25	4.58	4.31	4.03	4.03	4.04			
Turbidity (NTU)	3.99	4.60	3.58	2.46	1.59	1.22			
ORP (mV)	141.1	165.9	162.8	177.5	178.4	179.3			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron H. Oil

Decontamination Fluids Used: DI water
DI water AIR

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

* purging as slow as possible

SAMPLE DESTINATION

Laboratory:
Shipped Via: Federal Express ☑ UPS ☐ Other ☐

Sample was shipped day of sampling ☐ picked up on ☑

Chain of Custody Signed By: Daniel Kinsey 7.1.15

Hold

SAMPLING LOG

Client/Project: Ashland - Alterman
Site Location: Jonesboro, GA
Sampling Personnel: Chris Bagley
Job Number: E040957580
Weather: Sunny, 90°F

Event: GW Sampling Event - Summer 2015
Well ID: MW-23B
Date: 6/30/15
Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		13.15	
Total Depth	(feet)		69.28	
Screened Interval	(feet)			
Pump Intake ~	(feet)		42.0	

check where appropriate
Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	56.13
Volume of Water in Well:	(gal)	9.15
Pumping Rate of Pump:	(~~gal~~/min)	0.125
PumpStart: 17/7	Pump Stop:	1747
Minutes of Pumping:		30
Total Volume Removed: 0 (gal)		0.75

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases (HOLD) ☑
Sample ID: MW-23B
Sample Time: 1750
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: YSI 556 MPS

Time / Parameter	1	2	3	4	5	6	7	8	9
	1722	1727	1732	1737	1742	1747	CB 1752		
Rate (ml/min)	0.125	0.125	0.125	0.125	0.125	0.125			
Depth to Water (ft. TOC)	13.40	13.40	13.43	13.40	13.42	13.40			
Temperature (°C)	21.03	18.30	18.05	17.98	17.89	17.87			
pH	9.54	9.56	9.47	9.53	9.51	9.52			
Conductance (mS/cm)	0.205	0.189	0.189	0.185	0.184	0.184			
Dissolved Oxygen mg/L	6.81	2.57	1.73	1.18	0.98	0.84			
Turbidity (NTU)	9.57	9.21	8.75	8.84	9.07	5.54			
ORP (mV)	113.8	127.8	130.0	121.8	120.0	118.2			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Horn

Decontamination Fluids Used:
DI Water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project	Ashland - Alterman	Event:	GW Sampling Event - Summer 2015
Site Location:	Jonesboro, GA	Well ID:	MW-24C
Sampling Personnel:	Chris Bagley	Date:	7/2/15
Job Number:	E040957580	Time In:	Time Out:
Weather:	Sunny, 90°F		

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		35.29	
Total Depth	(feet)		43.65	
Screened Interval	(feet)			
Pump Intake ~	(feet)		40.00	

check where appropriate

Well Type: Flushmount ☑ Stick-Up ☐
Well Locked: Yes ☑ No ☐
Measuring Point Marked: Yes ☑ No ☐
Well Diameter: 1" ☐ 2" ☑ Other:

WELL WATER INFORMATION

Length of Water Column:	(feet)	8.36
Volume of Water in Well:	(gal)	1.36
Pumping Rate of Pump:	(ml/min)	0.25
PumpStart: 1415	Pump Stop:	1445
Minutes of Pumping:		30
Total Volume Removed:	0 (gal)	7.5 L

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:
VOC 8260 ☑
Metals 6010 ☐
Inorganics Various ☐
☐
Other: Dissolved Gases (HOLD) ☑
Sample ID: MW-24C
Sample Time: 1450
MS/MSD: Yes ☐ No ☐
Duplicate: Yes ☐ No ☐
Duplicate ID:
Total Bottles: 6

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		
Tubing Used:	Teflon ☑	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☑	Other Pump ☐		

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1420	1425	1430	1435	1440	1445			
Rate (ml/min)	0.25	0.25	0.25	0.25	0.25	0.25			
Depth to Water (ft. TOC)	35.75	35.80	35.85	35.75	35.78				
Temperature (°C)	22.67	21.96	21.54	21.50	21.80	21.64			
pH	5.27	5.00	5.06	5.02	4.93	4.92			
Conductance (mS/cm)	0.088	0.094	0.102	0.103	0.100	0.095			
Dissolved Oxygen mg/L)	9.00	7.97	6.84	5.32	5.52	6.07			
Turbidity (NTU)	7.83	6.19	4.82	5.02					
ORP (mV)	111.5	126.9	126.1	122.7	128.8	137.7			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: Heron

Decontamination Fluids Used: DI water
DI w/ Alk

Sample Observations:

MISCELLANEOUS OBSERVATIONS/PROBLEMS

SAMPLE DESTINATION

Laboratory:
Shipped Via: ☐ Federal Express ☐ UPS ☐ Other
Sample was ☐ shipped day of sampling ☐ picked up on
Chain of Custody Signed By:

SAMPLING LOG

Client/Project: Ashland - Alterman

Site Location: Jonesboro, GA

Sampling Personnel: Chris Bagley

Job Number: E040957580

Weather: Sunny, 70F

Event: GW Sampling Event - Summer 2015

~~Well ID:~~ Sample ID: SG-1

Date: 7/16/15

Time In: Time Out:

WELL INFORMATION

		TIC	TOC	BGS
Depth to Water	(feet)		NA	
Total Depth	(feet)		NA	
Screened Interval	(feet)		NA	
Pump Intake –	(feet)		NA	

check where appropriate

Well Type: Flushmount ☐ Stick-Up ☐

Well Locked: Yes ☐ No ☐

Measuring Point Marked: Yes ☐ No ☐

Well Diameter: 1" ☐ 2" ☐ Other: ___

WELL WATER INFORMATION

Length of Water Column:	(feet)	
Volume of Water in Well:	(gal)	
Pumping Rate of Pump:	(mL/min)	
PumpStart:	Pump Stop:	
Minutes of Pumping:		
Total Volume Removed:	0 (ml)	

Conversion Factors

gallons per feet of water column:	1" ID	2" ID	4" ID	6" ID
	0.041	0.163	0.653	1.469

1 gal = 3.785 L = 3785 mL = 0.1337 cubic ft.

Unit Stability

pH	DO	Cond	ORP	Temp
± 0.2	± 1 mg/L	± 5.0%	± 10%	± 5%

SAMPLING INFORMATION

Analyses:

VOC	8260	☐
Metals	6010	☐
Inorganics	Various	☐
		☐
Other:		☐
		☐

Sample ID: SG-1

Sample Time: 1226

MS/MSD: Yes ☐ No ☐

Duplicate: Yes ☐ No ☐

Duplicate ID:

Total Bottles:

EVACUATION INFORMATION

Evacuation Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☐		
Tubing Used:	Teflon ☐	Polyethylene ☐				
Sampling Method:	Bailer ☐	Peristaltic ☐	Bladder ☐	Other Pump ☐		

Did well go dry? Yes ☐ No ☐ Water Quality Meter Type: YSI 556

Time / Parameter	1	2	3	4	5	6	7	8	9
	1253	1258	1303	1308	1313	1318			
Rate (ml/min)									
Depth to Water (ft. TOC)									
Temperature (°C)	22.04	21.80	23.11	23.16	23.16	23.16			
pH	5.89	3.55	5.04	5.90	6.02	6.08			
Conductance (mS/cm)	0.097	0.098	0.098	0.099	0.099	0.099			
Dissolved Oxygen mg/L)	1.82	2.86	4.55	4.65	4.63	4.63			
Turbidity (NTU)									
ORP (mV)	317.4	498.6	394.0	359.6	353.9	351.7			

Time / Parameter	10	11	12
Rate (ml/min)			
Depth to Water (ft. TIC)			
Temperature (°C)			
pH			
Conductance (mS/cm)			
Dissolved Oxygen mg/L)			
Turbidity (NTU)			
ORP (mV)			

Water Level Equipment Used: N/A

Decontamination Fluids Used: N/A

Sample Observations:

No B

MISCELLANEOUS OBSERVATIONS/PROBLEMS

Not a well

Parameters taken from Creek

SAMPLE DESTINATION

Laboratory: Sample was ☐ shipped day of sampling ☐ picked up on

Chain of Custody Signed By:

Shipped Via: ☐ Federal Express ☐ UPS ☐ Other

APPENDIX C

Laboratory Analytical Data (CD)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-109331-1
Client Project/Site: Ashland Alterman

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Authorized for release by:
1/29/2015 3:45:55 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Method Summary 5
Definitions 6
Detection Summary 7
Client Sample Results 9
Surrogate Summary 25
QC Sample Results 26
QC Association 32
Chronicle 33
Chain of Custody 36
Receipt Checklists 38
Certification Summary 39

Job ID: 680-109331-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman

Report Number: 680-109331-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 01/24/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples Trip Blank (680-109331-1), Dup-1 (680-109331-2), MW-3B (680-109331-3), MW-9B (680-109331-4), MW-9C (680-109331-5), MW-11B (680-109331-6), MW-11C (680-109331-7), MW-8B (680-109331-8), MW-8C (680-109331-9), MW-10B (680-109331-10), MW-10C (680-109331-11), MW-3A (680-109331-12), MW-8A (680-109331-13), MW-9A (680-109331-14), MW-10A (680-109331-15), MW-11A (680-109331-16) and Equipment Blank (680-109331-17) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/27/2015 and 01/28/2015.

Surrogate recovery for the following sample was outside control limits: MW-10A (680-109331-15). Re-analysis was performed with concurring results. The original analysis has been reported.

Samples MW-8B (680-109331-8)[5X], MW-8A (680-109331-13)[10X], MW-9A (680-109331-14)[5X], MW-10A (680-109331-15)[5X] and MW-11A required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following sample(s) was diluted due to color, MW-11A (680-109331-16)[5X]. Elevated reporting limits (RL) are provided.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with batch 368407, 368576.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-109331-1	Trip Blank	Water	01/21/15 09:00	01/24/15 08:48
680-109331-2	Dup-1	Water	01/22/15 00:00	01/24/15 08:48
680-109331-3	MW-3B	Water	01/21/15 12:10	01/24/15 08:48
680-109331-4	MW-9B	Water	01/21/15 10:48	01/24/15 08:48
680-109331-5	MW-9C	Water	01/21/15 11:06	01/24/15 08:48
680-109331-6	MW-11B	Water	01/21/15 13:17	01/24/15 08:48
680-109331-7	MW-11C	Water	01/21/15 13:07	01/24/15 08:48
680-109331-8	MW-8B	Water	01/21/15 14:48	01/24/15 08:48
680-109331-9	MW-8C	Water	01/21/15 14:46	01/24/15 08:48
680-109331-10	MW-10B	Water	01/22/15 09:55	01/24/15 08:48
680-109331-11	MW-10C	Water	01/22/15 09:46	01/24/15 08:48
680-109331-12	MW-3A	Water	01/22/15 11:11	01/24/15 08:48
680-109331-13	MW-8A	Water	01/22/15 12:07	01/24/15 08:48
680-109331-14	MW-9A	Water	01/22/15 14:50	01/24/15 08:48
680-109331-15	MW-10A	Water	01/22/15 15:39	01/24/15 08:48
680-109331-16	MW-11A	Water	01/22/15 16:32	01/24/15 08:48
680-109331-17	Equipment Blank	Water	01/22/15 16:40	01/24/15 08:48

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: Trip Blank — Lab Sample ID: 680-109331-1

No Detections.

Client Sample ID: Dup-1 — Lab Sample ID: 680-109331-2

No Detections.

Client Sample ID: MW-3B — Lab Sample ID: 680-109331-3

No Detections.

Client Sample ID: MW-9B — Lab Sample ID: 680-109331-4

No Detections.

Client Sample ID: MW-9C — Lab Sample ID: 680-109331-5

No Detections.

Client Sample ID: MW-11B — Lab Sample ID: 680-109331-6

No Detections.

Client Sample ID: MW-11C — Lab Sample ID: 680-109331-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-8B — Lab Sample ID: 680-109331-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	310		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-8C — Lab Sample ID: 680-109331-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	34		10		ug/L	1		8260B	Total/NA
Acetone	26		10		ug/L	1		8260B	Total/NA
Chloromethane	1.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-10B — Lab Sample ID: 680-109331-10

No Detections.

Client Sample ID: MW-10C — Lab Sample ID: 680-109331-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.6		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 680-109331-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	75		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: MW-8A — Lab Sample ID: 680-109331-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	22		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	570		10		ug/L	10		8260B	Total/NA
Trichloroethene	46		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-9A — Lab Sample ID: 680-109331-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	91		50		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	6.6		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	560		5.0		ug/L	5		8260B	Total/NA
trans-1,2-Dichloroethene	5.1		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	86		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-10A — Lab Sample ID: 680-109331-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	14		5.0		ug/L	5		8260B	Total/NA
cis-1,2-Dichloroethene	73		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	660		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	130		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-11A — Lab Sample ID: 680-109331-16

No Detections.

Client Sample ID: Equipment Blank — Lab Sample ID: 680-109331-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: Trip Blank

Lab Sample ID: 680-109331-1

Date Collected: 01/21/15 09:00

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 14:15	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 14:15	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 14:15	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 14:15	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:15	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 14:15	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 14:15	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 14:15	1
2-Hexanone	<10		10		ug/L			01/28/15 14:15	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 14:15	1
Acetone	<10		10		ug/L			01/28/15 14:15	1
Benzene	<1.0		1.0		ug/L			01/28/15 14:15	1
Bromoform	<1.0		1.0		ug/L			01/28/15 14:15	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 14:15	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 14:15	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 14:15	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 14:15	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 14:15	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 14:15	1
Chloroform	<1.0		1.0		ug/L			01/28/15 14:15	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 14:15	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:15	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 14:15	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 14:15	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 14:15	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 14:15	1
Styrene	<1.0		1.0		ug/L			01/28/15 14:15	1
Tetrachloroethene	<1.0		1.0		ug/L			01/28/15 14:15	1
Toluene	<1.0		1.0		ug/L			01/28/15 14:15	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:15	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 14:15	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 14:15	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 14:15	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 14:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*104*		*70 - 130*		*01/28/15 14:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*01/28/15 14:15*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/28/15 14:15*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*01/28/15 14:15*	*1*

Client Sample ID: Dup-1

Lab Sample ID: 680-109331-2

Date Collected: 01/22/15 00:00

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 14:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 14:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 14:41	1

Client Sample ID: Dup-1

Lab Sample ID: 680-109331-2

Date Collected: 01/22/15 00:00

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 14:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 14:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 14:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 14:41	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 14:41	1
2-Hexanone	<10		10		ug/L			01/27/15 14:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 14:41	1
Acetone	<10		10		ug/L			01/27/15 14:41	1
Benzene	<1.0		1.0		ug/L			01/27/15 14:41	1
Bromoform	<1.0		1.0		ug/L			01/27/15 14:41	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 14:41	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 14:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 14:41	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 14:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 14:41	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 14:41	1
Chloroform	<1.0		1.0		ug/L			01/27/15 14:41	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 14:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 14:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 14:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 14:41	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 14:41	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 14:41	1
Styrene	<1.0		1.0		ug/L			01/27/15 14:41	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 14:41	1
Toluene	<1.0		1.0		ug/L			01/27/15 14:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 14:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 14:41	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 14:41	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 14:41	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 14:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/27/15 14:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*01/27/15 14:41*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/27/15 14:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/27/15 14:41*	*1*

Client Sample ID: MW-3B

Lab Sample ID: 680-109331-3

Date Collected: 01/21/15 12:10

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 15:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 15:04	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 15:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 15:04	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 15:04	1

Client Sample ID: MW-3B
Date Collected: 01/21/15 12:10
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 15:04	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 15:04	1
2-Hexanone	<10		10		ug/L			01/27/15 15:04	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 15:04	1
Acetone	<10		10		ug/L			01/27/15 15:04	1
Benzene	<1.0		1.0		ug/L			01/27/15 15:04	1
Bromoform	<1.0		1.0		ug/L			01/27/15 15:04	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 15:04	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 15:04	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 15:04	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 15:04	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 15:04	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 15:04	1
Chloroform	<1.0		1.0		ug/L			01/27/15 15:04	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 15:04	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:04	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 15:04	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 15:04	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 15:04	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 15:04	1
Styrene	<1.0		1.0		ug/L			01/27/15 15:04	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 15:04	1
Toluene	<1.0		1.0		ug/L			01/27/15 15:04	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:04	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 15:04	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 15:04	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 15:04	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*70 - 130*		*01/27/15 15:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/27/15 15:04*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*01/27/15 15:04*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/27/15 15:04*	*1*

Client Sample ID: MW-9B
Date Collected: 01/21/15 10:48
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 15:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 15:26	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 15:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 15:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 15:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 15:26	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 15:26	1
2-Hexanone	<10		10		ug/L			01/27/15 15:26	1

Client Sample ID: MW-9B
Date Collected: 01/21/15 10:48
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 15:26	1
Acetone	<10		10		ug/L			01/27/15 15:26	1
Benzene	<1.0		1.0		ug/L			01/27/15 15:26	1
Bromoform	<1.0		1.0		ug/L			01/27/15 15:26	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 15:26	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 15:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 15:26	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 15:26	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 15:26	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 15:26	1
Chloroform	<1.0		1.0		ug/L			01/27/15 15:26	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 15:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:26	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 15:26	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 15:26	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 15:26	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 15:26	1
Styrene	<1.0		1.0		ug/L			01/27/15 15:26	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 15:26	1
Toluene	<1.0		1.0		ug/L			01/27/15 15:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 15:26	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 15:26	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 15:26	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 15:26	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*70 - 130*		*01/27/15 15:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/27/15 15:26*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*01/27/15 15:26*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/27/15 15:26*	*1*

Client Sample ID: MW-9C
Date Collected: 01/21/15 11:06
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 14:36	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 14:36	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 14:36	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 14:36	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:36	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 14:36	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 14:36	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 14:36	1
2-Hexanone	<10		10		ug/L			01/28/15 14:36	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 14:36	1
Acetone	<10		10		ug/L			01/28/15 14:36	1
Benzene	<1.0		1.0		ug/L			01/28/15 14:36	1

Client Sample ID: MW-9C

Lab Sample ID: 680-109331-5

Date Collected: 01/21/15 11:06

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			01/28/15 14:36	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 14:36	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 14:36	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 14:36	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 14:36	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 14:36	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 14:36	1
Chloroform	<1.0		1.0		ug/L			01/28/15 14:36	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 14:36	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:36	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 14:36	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 14:36	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 14:36	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 14:36	1
Styrene	<1.0		1.0		ug/L			01/28/15 14:36	1
Tetrachloroethene	<1.0		1.0		ug/L			01/28/15 14:36	1
Toluene	<1.0		1.0		ug/L			01/28/15 14:36	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 14:36	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 14:36	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 14:36	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 14:36	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*01/28/15 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/28/15 14:36*	*1*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*01/28/15 14:36*	*1*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*01/28/15 14:36*	*1*

Client Sample ID: MW-11B

Lab Sample ID: 680-109331-6

Date Collected: 01/21/15 13:17

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 16:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 16:12	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 16:12	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 16:12	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:12	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 16:12	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 16:12	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 16:12	1
2-Hexanone	<10		10		ug/L			01/27/15 16:12	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 16:12	1
Acetone	<10		10		ug/L			01/27/15 16:12	1
Benzene	<1.0		1.0		ug/L			01/27/15 16:12	1
Bromoform	<1.0		1.0		ug/L			01/27/15 16:12	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 16:12	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 16:12	1

Client Sample ID: MW-11B

Lab Sample ID: 680-109331-6

Date Collected: 01/21/15 13:17

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 16:12	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 16:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 16:12	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 16:12	1
Chloroform	<1.0		1.0		ug/L			01/27/15 16:12	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 16:12	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:12	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 16:12	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 16:12	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 16:12	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 16:12	1
Styrene	<1.0		1.0		ug/L			01/27/15 16:12	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 16:12	1
Toluene	<1.0		1.0		ug/L			01/27/15 16:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:12	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 16:12	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 16:12	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 16:12	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 16:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*70 - 130*		*01/27/15 16:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*70 - 130*		*01/27/15 16:12*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*01/27/15 16:12*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*01/27/15 16:12*	*1*

Client Sample ID: MW-11C

Lab Sample ID: 680-109331-7

Date Collected: 01/21/15 13:07

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 16:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 16:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 16:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 16:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 16:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 16:34	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 16:34	1
2-Hexanone	<10		10		ug/L			01/27/15 16:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 16:34	1
Acetone	<10		10		ug/L			01/27/15 16:34	1
Benzene	<1.0		1.0		ug/L			01/27/15 16:34	1
Bromoform	<1.0		1.0		ug/L			01/27/15 16:34	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 16:34	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 16:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 16:34	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 16:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 16:34	1

Client Sample ID: MW-11C

Lab Sample ID: 680-109331-7

Date Collected: 01/21/15 13:07

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			01/27/15 16:34	1
Chloroform	<1.0		1.0		ug/L			01/27/15 16:34	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 16:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 16:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 16:34	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 16:34	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 16:34	1
Styrene	<1.0		1.0		ug/L			01/27/15 16:34	1
Tetrachloroethene	**1.0**		1.0		ug/L			01/27/15 16:34	1
Toluene	<1.0		1.0		ug/L			01/27/15 16:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 16:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 16:34	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 16:34	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 16:34	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 16:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/27/15 16:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*01/27/15 16:34*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*01/27/15 16:34*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*01/27/15 16:34*	*1*

Client Sample ID: MW-8B

Lab Sample ID: 680-109331-8

Date Collected: 01/21/15 14:48

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			01/28/15 14:57	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			01/28/15 14:57	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			01/28/15 14:57	5
1,1-Dichloroethane	<5.0		5.0		ug/L			01/28/15 14:57	5
1,1-Dichloroethene	<5.0		5.0		ug/L			01/28/15 14:57	5
1,2-Dichloroethane	<5.0		5.0		ug/L			01/28/15 14:57	5
1,2-Dichloropropane	<5.0		5.0		ug/L			01/28/15 14:57	5
2-Butanone (MEK)	<50		50		ug/L			01/28/15 14:57	5
2-Hexanone	<50		50		ug/L			01/28/15 14:57	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			01/28/15 14:57	5
Acetone	<50		50		ug/L			01/28/15 14:57	5
Benzene	<5.0		5.0		ug/L			01/28/15 14:57	5
Bromoform	<5.0		5.0		ug/L			01/28/15 14:57	5
Bromomethane	<25		25		ug/L			01/28/15 14:57	5
Carbon disulfide	<10		10		ug/L			01/28/15 14:57	5
Carbon tetrachloride	<5.0		5.0		ug/L			01/28/15 14:57	5
Chlorobenzene	<5.0		5.0		ug/L			01/28/15 14:57	5
Chlorodibromomethane	<5.0		5.0		ug/L			01/28/15 14:57	5
Chloroethane	<25		25		ug/L			01/28/15 14:57	5
Chloroform	<5.0		5.0		ug/L			01/28/15 14:57	5
Chloromethane	<5.0		5.0		ug/L			01/28/15 14:57	5

Client Sample ID: MW-8B

Lab Sample ID: 680-109331-8

Date Collected: 01/21/15 14:48

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			01/28/15 14:57	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 14:57	5
Dichlorobromomethane	<5.0		5.0		ug/L			01/28/15 14:57	5
Ethylbenzene	<5.0		5.0		ug/L			01/28/15 14:57	5
Methylene Chloride	<25		25		ug/L			01/28/15 14:57	5
Styrene	<5.0		5.0		ug/L			01/28/15 14:57	5
Tetrachloroethene	**310**		5.0		ug/L			01/28/15 14:57	5
Toluene	<5.0		5.0		ug/L			01/28/15 14:57	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			01/28/15 14:57	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 14:57	5
Trichloroethene	<5.0		5.0		ug/L			01/28/15 14:57	5
Vinyl chloride	<5.0		5.0		ug/L			01/28/15 14:57	5
Xylenes, Total	<5.0		5.0		ug/L			01/28/15 14:57	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/28/15 14:57*	*5*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/28/15 14:57*	*5*
Dibromofluoromethane (Surr)	*123*		*70 - 130*		*01/28/15 14:57*	*5*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*01/28/15 14:57*	*5*

Client Sample ID: MW-8C

Lab Sample ID: 680-109331-9

Date Collected: 01/21/15 14:46

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 17:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 17:19	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 17:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 17:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 17:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 17:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 17:19	1
2-Butanone (MEK)	**34**		10		ug/L			01/27/15 17:19	1
2-Hexanone	<10		10		ug/L			01/27/15 17:19	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 17:19	1
Acetone	**26**		10		ug/L			01/27/15 17:19	1
Benzene	<1.0		1.0		ug/L			01/27/15 17:19	1
Bromoform	<1.0		1.0		ug/L			01/27/15 17:19	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 17:19	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 17:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 17:19	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 17:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 17:19	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 17:19	1
Chloroform	<1.0		1.0		ug/L			01/27/15 17:19	1
Chloromethane	**1.3**		1.0		ug/L			01/27/15 17:19	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 17:19	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 17:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 17:19	1

Client Sample ID: MW-8C

Lab Sample ID: 680-109331-9

Date Collected: 01/21/15 14:46

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 17:19	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 17:19	1
Styrene	<1.0		1.0		ug/L			01/27/15 17:19	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 17:19	1
Toluene	<1.0		1.0		ug/L			01/27/15 17:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 17:19	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 17:19	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 17:19	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 17:19	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*111*		*70 - 130*		*01/27/15 17:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*01/27/15 17:19*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*01/27/15 17:19*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/27/15 17:19*	*1*

Client Sample ID: MW-10B

Lab Sample ID: 680-109331-10

Date Collected: 01/22/15 09:55

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 15:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 15:17	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 15:17	1
2-Hexanone	<10		10		ug/L			01/28/15 15:17	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 15:17	1
Acetone	<10		10		ug/L			01/28/15 15:17	1
Benzene	<1.0		1.0		ug/L			01/28/15 15:17	1
Bromoform	<1.0		1.0		ug/L			01/28/15 15:17	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 15:17	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 15:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 15:17	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 15:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 15:17	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 15:17	1
Chloroform	<1.0		1.0		ug/L			01/28/15 15:17	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 15:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:17	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:17	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 15:17	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 15:17	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 15:17	1
Styrene	<1.0		1.0		ug/L			01/28/15 15:17	1

Client Sample ID: MW-10B

Lab Sample ID: 680-109331-10

Date Collected: 01/22/15 09:55

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.0		1.0		ug/L			01/28/15 15:17	1
Toluene	<1.0		1.0		ug/L			01/28/15 15:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:17	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:17	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 15:17	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 15:17	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*01/28/15 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/28/15 15:17*	*1*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*01/28/15 15:17*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*01/28/15 15:17*	*1*

Client Sample ID: MW-10C

Lab Sample ID: 680-109331-11

Date Collected: 01/22/15 09:46

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 15:38	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:38	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:38	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:38	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:38	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 15:38	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 15:38	1
2-Hexanone	<10		10		ug/L			01/28/15 15:38	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 15:38	1
Acetone	<10		10		ug/L			01/28/15 15:38	1
Benzene	<1.0		1.0		ug/L			01/28/15 15:38	1
Bromoform	<1.0		1.0		ug/L			01/28/15 15:38	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 15:38	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 15:38	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 15:38	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 15:38	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 15:38	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 15:38	1
Chloroform	<1.0		1.0		ug/L			01/28/15 15:38	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 15:38	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:38	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:38	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 15:38	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 15:38	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 15:38	1
Styrene	<1.0		1.0		ug/L			01/28/15 15:38	1
Tetrachloroethene	**7.6**		1.0		ug/L			01/28/15 15:38	1
Toluene	<1.0		1.0		ug/L			01/28/15 15:38	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:38	1

Client Sample ID: MW-10C

Date Collected: 01/22/15 09:46
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:38	1
Trichloroethene	**1.0**		1.0		ug/L			01/28/15 15:38	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 15:38	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/28/15 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*01/28/15 15:38*	*1*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*01/28/15 15:38*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*01/28/15 15:38*	*1*

Client Sample ID: MW-3A

Date Collected: 01/22/15 11:11
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:59	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 15:59	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 15:59	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:59	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:59	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 15:59	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 15:59	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 15:59	1
2-Hexanone	<10		10		ug/L			01/28/15 15:59	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 15:59	1
Acetone	<10		10		ug/L			01/28/15 15:59	1
Benzene	<1.0		1.0		ug/L			01/28/15 15:59	1
Bromoform	<1.0		1.0		ug/L			01/28/15 15:59	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 15:59	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 15:59	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 15:59	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 15:59	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 15:59	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 15:59	1
Chloroform	<1.0		1.0		ug/L			01/28/15 15:59	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 15:59	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:59	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:59	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 15:59	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 15:59	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 15:59	1
Styrene	<1.0		1.0		ug/L			01/28/15 15:59	1
Tetrachloroethene	**75**		1.0		ug/L			01/28/15 15:59	1
Toluene	<1.0		1.0		ug/L			01/28/15 15:59	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 15:59	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 15:59	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 15:59	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 15:59	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: MW-3A

Date Collected: 01/22/15 11:11
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-12

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 15:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/28/15 15:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*01/28/15 15:59*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*01/28/15 15:59*	*1*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*		*01/28/15 15:59*	*1*

Client Sample ID: MW-8A

Date Collected: 01/22/15 12:07
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-13

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<10		10		ug/L			01/27/15 18:50	10
1,1,2,2-Tetrachloroethane	<10		10		ug/L			01/27/15 18:50	10
1,1,2-Trichloroethane	<10		10		ug/L			01/27/15 18:50	10
1,1-Dichloroethane	<10		10		ug/L			01/27/15 18:50	10
1,1-Dichloroethene	<10		10		ug/L			01/27/15 18:50	10
1,2-Dichloroethane	<10		10		ug/L			01/27/15 18:50	10
1,2-Dichloropropane	<10		10		ug/L			01/27/15 18:50	10
2-Butanone (MEK)	<100		100		ug/L			01/27/15 18:50	10
2-Hexanone	<100		100		ug/L			01/27/15 18:50	10
4-Methyl-2-pentanone (MIBK)	<100		100		ug/L			01/27/15 18:50	10
Acetone	<100		100		ug/L			01/27/15 18:50	10
Benzene	<10		10		ug/L			01/27/15 18:50	10
Bromoform	<10		10		ug/L			01/27/15 18:50	10
Bromomethane	<50		50		ug/L			01/27/15 18:50	10
Carbon disulfide	<20		20		ug/L			01/27/15 18:50	10
Carbon tetrachloride	<10		10		ug/L			01/27/15 18:50	10
Chlorobenzene	<10		10		ug/L			01/27/15 18:50	10
Chlorodibromomethane	<10		10		ug/L			01/27/15 18:50	10
Chloroethane	<50		50		ug/L			01/27/15 18:50	10
Chloroform	<10		10		ug/L			01/27/15 18:50	10
Chloromethane	<10		10		ug/L			01/27/15 18:50	10
cis-1,2-Dichloroethene	**22**		10		ug/L			01/27/15 18:50	10
cis-1,3-Dichloropropene	<10		10		ug/L			01/27/15 18:50	10
Dichlorobromomethane	<10		10		ug/L			01/27/15 18:50	10
Ethylbenzene	<10		10		ug/L			01/27/15 18:50	10
Methylene Chloride	<50		50		ug/L			01/27/15 18:50	10
Styrene	<10		10		ug/L			01/27/15 18:50	10
Tetrachloroethene	**570**		10		ug/L			01/27/15 18:50	10
Toluene	<10		10		ug/L			01/27/15 18:50	10
trans-1,2-Dichloroethene	<10		10		ug/L			01/27/15 18:50	10
trans-1,3-Dichloropropene	<10		10		ug/L			01/27/15 18:50	10
Trichloroethene	**46**		10		ug/L			01/27/15 18:50	10
Vinyl chloride	<10		10		ug/L			01/27/15 18:50	10
Xylenes, Total	<10		10		ug/L			01/27/15 18:50	10

Client Sample ID: MW-8A

Lab Sample ID: 680-109331-13

Date Collected: 01/22/15 12:07

Matrix: Water

Date Received: 01/24/15 08:48

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*110*		*70 - 130*		*01/27/15 18:50*	*10*
1,2-Dichloroethane-d4 (Surr)	*129*		*70 - 130*		*01/27/15 18:50*	*10*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*01/27/15 18:50*	*10*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*01/27/15 18:50*	*10*

Client Sample ID: MW-9A

Lab Sample ID: 680-109331-14

Date Collected: 01/22/15 14:50

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			01/28/15 16:19	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			01/28/15 16:19	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			01/28/15 16:19	5
1,1-Dichloroethane	<5.0		5.0		ug/L			01/28/15 16:19	5
1,1-Dichloroethene	<5.0		5.0		ug/L			01/28/15 16:19	5
1,2-Dichloroethane	<5.0		5.0		ug/L			01/28/15 16:19	5
1,2-Dichloropropane	<5.0		5.0		ug/L			01/28/15 16:19	5
2-Butanone (MEK)	<50		50		ug/L			01/28/15 16:19	5
2-Hexanone	<50		50		ug/L			01/28/15 16:19	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			01/28/15 16:19	5
Acetone	**91**		50		ug/L			01/28/15 16:19	5
Benzene	<5.0		5.0		ug/L			01/28/15 16:19	5
Bromoform	<5.0		5.0		ug/L			01/28/15 16:19	5
Bromomethane	<25		25		ug/L			01/28/15 16:19	5
Carbon disulfide	<10		10		ug/L			01/28/15 16:19	5
Carbon tetrachloride	<5.0		5.0		ug/L			01/28/15 16:19	5
Chlorobenzene	<5.0		5.0		ug/L			01/28/15 16:19	5
Chlorodibromomethane	<5.0		5.0		ug/L			01/28/15 16:19	5
Chloroethane	<25		25		ug/L			01/28/15 16:19	5
Chloroform	<5.0		5.0		ug/L			01/28/15 16:19	5
Chloromethane	<5.0		5.0		ug/L			01/28/15 16:19	5
cis-1,2-Dichloroethene	**6.6**		5.0		ug/L			01/28/15 16:19	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 16:19	5
Dichlorobromomethane	<5.0		5.0		ug/L			01/28/15 16:19	5
Ethylbenzene	<5.0		5.0		ug/L			01/28/15 16:19	5
Methylene Chloride	<25		25		ug/L			01/28/15 16:19	5
Styrene	<5.0		5.0		ug/L			01/28/15 16:19	5
Tetrachloroethene	**560**		5.0		ug/L			01/28/15 16:19	5
Toluene	<5.0		5.0		ug/L			01/28/15 16:19	5
trans-1,2-Dichloroethene	**5.1**		5.0		ug/L			01/28/15 16:19	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 16:19	5
Trichloroethene	**86**		5.0		ug/L			01/28/15 16:19	5
Vinyl chloride	<5.0		5.0		ug/L			01/28/15 16:19	5
Xylenes, Total	<5.0		5.0		ug/L			01/28/15 16:19	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*106*		*70 - 130*		*01/28/15 16:19*	*5*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/28/15 16:19*	*5*
Dibromofluoromethane (Surr)	*125*		*70 - 130*		*01/28/15 16:19*	*5*

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: MW-9A

Lab Sample ID: 680-109331-14

Date Collected: 01/22/15 14:50

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*01/28/15 16:19*	*5*

Client Sample ID: MW-10A

Lab Sample ID: 680-109331-15

Date Collected: 01/22/15 15:39

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			01/27/15 19:35	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			01/27/15 19:35	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			01/27/15 19:35	5
1,1-Dichloroethane	<5.0		5.0		ug/L			01/27/15 19:35	5
1,1-Dichloroethene	<5.0		5.0		ug/L			01/27/15 19:35	5
1,2-Dichloroethane	<5.0		5.0		ug/L			01/27/15 19:35	5
1,2-Dichloropropane	<5.0		5.0		ug/L			01/27/15 19:35	5
2-Butanone (MEK)	<50		50		ug/L			01/27/15 19:35	5
2-Hexanone	<50		50		ug/L			01/27/15 19:35	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			01/27/15 19:35	5
Acetone	<50		50		ug/L			01/27/15 19:35	5
Benzene	<5.0		5.0		ug/L			01/27/15 19:35	5
Bromoform	<5.0		5.0		ug/L			01/27/15 19:35	5
Bromomethane	<25		25		ug/L			01/27/15 19:35	5
Carbon disulfide	<10		10		ug/L			01/27/15 19:35	5
Carbon tetrachloride	<5.0		5.0		ug/L			01/27/15 19:35	5
Chlorobenzene	<5.0		5.0		ug/L			01/27/15 19:35	5
Chlorodibromomethane	<5.0		5.0		ug/L			01/27/15 19:35	5
Chloroethane	<25		25		ug/L			01/27/15 19:35	5
Chloroform	**14**		5.0		ug/L			01/27/15 19:35	5
Chloromethane	<5.0		5.0		ug/L			01/27/15 19:35	5
cis-1,2-Dichloroethene	**73**		5.0		ug/L			01/27/15 19:35	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			01/27/15 19:35	5
Dichlorobromomethane	<5.0		5.0		ug/L			01/27/15 19:35	5
Ethylbenzene	<5.0		5.0		ug/L			01/27/15 19:35	5
Methylene Chloride	<25		25		ug/L			01/27/15 19:35	5
Styrene	<5.0		5.0		ug/L			01/27/15 19:35	5
Tetrachloroethene	**660**		5.0		ug/L			01/27/15 19:35	5
Toluene	<5.0		5.0		ug/L			01/27/15 19:35	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			01/27/15 19:35	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			01/27/15 19:35	5
Trichloroethene	**130**		5.0		ug/L			01/27/15 19:35	5
Vinyl chloride	<5.0		5.0		ug/L			01/27/15 19:35	5
Xylenes, Total	<5.0		5.0		ug/L			01/27/15 19:35	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*108*		*70 - 130*		*01/27/15 19:35*	*5*
1,2-Dichloroethane-d4 (Surr)	*136*	*X*	*70 - 130*		*01/27/15 19:35*	*5*
Dibromofluoromethane (Surr)	*116*		*70 - 130*		*01/27/15 19:35*	*5*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*01/27/15 19:35*	*5*

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: MW-11A

Lab Sample ID: 680-109331-16

Date Collected: 01/22/15 16:32

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			01/28/15 17:01	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			01/28/15 17:01	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			01/28/15 17:01	5
1,1-Dichloroethane	<5.0		5.0		ug/L			01/28/15 17:01	5
1,1-Dichloroethene	<5.0		5.0		ug/L			01/28/15 17:01	5
1,2-Dichloroethane	<5.0		5.0		ug/L			01/28/15 17:01	5
1,2-Dichloropropane	<5.0		5.0		ug/L			01/28/15 17:01	5
2-Butanone (MEK)	<50		50		ug/L			01/28/15 17:01	5
2-Hexanone	<50		50		ug/L			01/28/15 17:01	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			01/28/15 17:01	5
Acetone	<50		50		ug/L			01/28/15 17:01	5
Benzene	<5.0		5.0		ug/L			01/28/15 17:01	5
Bromoform	<5.0		5.0		ug/L			01/28/15 17:01	5
Bromomethane	<25		25		ug/L			01/28/15 17:01	5
Carbon disulfide	<10		10		ug/L			01/28/15 17:01	5
Carbon tetrachloride	<5.0		5.0		ug/L			01/28/15 17:01	5
Chlorobenzene	<5.0		5.0		ug/L			01/28/15 17:01	5
Chlorodibromomethane	<5.0		5.0		ug/L			01/28/15 17:01	5
Chloroethane	<25		25		ug/L			01/28/15 17:01	5
Chloroform	<5.0		5.0		ug/L			01/28/15 17:01	5
Chloromethane	<5.0		5.0		ug/L			01/28/15 17:01	5
cis-1,2-Dichloroethene	<5.0		5.0		ug/L			01/28/15 17:01	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 17:01	5
Dichlorobromomethane	<5.0		5.0		ug/L			01/28/15 17:01	5
Ethylbenzene	<5.0		5.0		ug/L			01/28/15 17:01	5
Methylene Chloride	<25		25		ug/L			01/28/15 17:01	5
Styrene	<5.0		5.0		ug/L			01/28/15 17:01	5
Tetrachloroethene	<5.0		5.0		ug/L			01/28/15 17:01	5
Toluene	<5.0		5.0		ug/L			01/28/15 17:01	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			01/28/15 17:01	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			01/28/15 17:01	5
Trichloroethene	<5.0		5.0		ug/L			01/28/15 17:01	5
Vinyl chloride	<5.0		5.0		ug/L			01/28/15 17:01	5
Xylenes, Total	<5.0		5.0		ug/L			01/28/15 17:01	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*01/28/15 17:01*	*5*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*01/28/15 17:01*	*5*
Dibromofluoromethane (Surr)	*118*		*70 - 130*		*01/28/15 17:01*	*5*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*		*01/28/15 17:01*	*5*

Client Sample ID: Equipment Blank

Lab Sample ID: 680-109331-17

Date Collected: 01/22/15 16:40

Matrix: Water

Date Received: 01/24/15 08:48

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 12:11	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 12:11	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 12:11	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: Equipment Blank
Date Collected: 01/22/15 16:40
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 12:11	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 12:11	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 12:11	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 12:11	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 12:11	1
2-Hexanone	<10		10		ug/L			01/28/15 12:11	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 12:11	1
Acetone	<10		10		ug/L			01/28/15 12:11	1
Benzene	<1.0		1.0		ug/L			01/28/15 12:11	1
Bromoform	<1.0		1.0		ug/L			01/28/15 12:11	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 12:11	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 12:11	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 12:11	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 12:11	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 12:11	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 12:11	1
Chloroform	<1.0		1.0		ug/L			01/28/15 12:11	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 12:11	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 12:11	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 12:11	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 12:11	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 12:11	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 12:11	1
Styrene	<1.0		1.0		ug/L			01/28/15 12:11	1
Tetrachloroethene	<1.0		1.0		ug/L			01/28/15 12:11	1
Toluene	<1.0		1.0		ug/L			01/28/15 12:11	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 12:11	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 12:11	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 12:11	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 12:11	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*01/28/15 12:11*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*01/28/15 12:11*	*1*
Dibromofluoromethane (Surr)	*117*		*70 - 130*		*01/28/15 12:11*	*1*
4-Bromofluorobenzene (Surr)	*112*		*70 - 130*		*01/28/15 12:11*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-109331-1	Trip Blank	104	95	105	110
680-109331-2	Dup-1	108	101	106	99
680-109331-3	MW-3B	110	108	103	101
680-109331-4	MW-9B	109	108	103	100
680-109331-5	MW-9C	97	98	114	109
680-109331-6	MW-11B	110	113	106	99
680-109331-7	MW-11C	108	108	104	98
680-109331-8	MW-8B	106	116	123	108
680-109331-9	MW-8C	111	120	110	101
680-109331-10	MW-10B	107	100	111	114
680-109331-11	MW-10C	106	99	112	114
680-109331-12	MW-3A	108	100	105	111
680-109331-13	MW-8A	110	129	117	100
680-109331-14	MW-9A	106	116	125	114
680-109331-15	MW-10A	108	136 X	116	101
680-109331-16	MW-11A	105	116	118	116
680-109331-17	Equipment Blank	98	103	117	112
LCS 680-368407/4	Lab Control Sample	110	102	104	102
LCS 680-368576/5	Lab Control Sample	109	102	104	96
LCSD 680-368407/5	Lab Control Sample Dup	107	98	103	101
LCSD 680-368576/6	Lab Control Sample Dup	115	106	106	103
MB 680-368407/8	Method Blank	112	98	101	103
MB 680-368576/9	Method Blank	105	105	107	114

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-368407/8
Matrix: Water
Analysis Batch: 368407

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/27/15 12:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/27/15 12:25	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/27/15 12:25	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/27/15 12:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/27/15 12:25	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/27/15 12:25	1
1,2-Dichloropropane	<1.0		1.0		ug/L			01/27/15 12:25	1
2-Butanone (MEK)	<10		10		ug/L			01/27/15 12:25	1
2-Hexanone	<10		10		ug/L			01/27/15 12:25	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/27/15 12:25	1
Acetone	<10		10		ug/L			01/27/15 12:25	1
Benzene	<1.0		1.0		ug/L			01/27/15 12:25	1
Bromoform	<1.0		1.0		ug/L			01/27/15 12:25	1
Bromomethane	<5.0		5.0		ug/L			01/27/15 12:25	1
Carbon disulfide	<2.0		2.0		ug/L			01/27/15 12:25	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/27/15 12:25	1
Chlorobenzene	<1.0		1.0		ug/L			01/27/15 12:25	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/27/15 12:25	1
Chloroethane	<5.0		5.0		ug/L			01/27/15 12:25	1
Chloroform	<1.0		1.0		ug/L			01/27/15 12:25	1
Chloromethane	<1.0		1.0		ug/L			01/27/15 12:25	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 12:25	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 12:25	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/27/15 12:25	1
Ethylbenzene	<1.0		1.0		ug/L			01/27/15 12:25	1
Methylene Chloride	<5.0		5.0		ug/L			01/27/15 12:25	1
Styrene	<1.0		1.0		ug/L			01/27/15 12:25	1
Tetrachloroethene	<1.0		1.0		ug/L			01/27/15 12:25	1
Toluene	<1.0		1.0		ug/L			01/27/15 12:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/27/15 12:25	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/27/15 12:25	1
Trichloroethene	<1.0		1.0		ug/L			01/27/15 12:25	1
Vinyl chloride	<1.0		1.0		ug/L			01/27/15 12:25	1
Xylenes, Total	<1.0		1.0		ug/L			01/27/15 12:25	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*112*		*70 - 130*		*01/27/15 12:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*01/27/15 12:25*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*01/27/15 12:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*01/27/15 12:25*	*1*

Lab Sample ID: LCS 680-368407/4
Matrix: Water
Analysis Batch: 368407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	55.3		ug/L		111	74 - 128
1,1,2,2-Tetrachloroethane	50.0	55.5		ug/L		111	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-368407/4
Matrix: Water
Analysis Batch: 368407

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	54.0		ug/L		108	79 - 125
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	49.7		ug/L		99	74 - 125
1,2-Dichloroethane	50.0	51.8		ug/L		104	75 - 130
1,2-Dichloropropane	50.0	52.4		ug/L		105	80 - 123
2-Butanone (MEK)	250	286		ug/L		114	75 - 133
2-Hexanone	250	249		ug/L		100	70 - 141
4-Methyl-2-pentanone (MIBK)	250	269		ug/L		108	75 - 135
Acetone	250	242		ug/L		97	60 - 154
Benzene	50.0	54.6		ug/L		109	73 - 131
Bromoform	50.0	65.2		ug/L		130	69 - 135
Bromomethane	50.0	43.3		ug/L		87	20 - 180
Carbon disulfide	50.0	52.2		ug/L		104	73 - 127
Carbon tetrachloride	50.0	55.3		ug/L		111	75 - 130
Chlorobenzene	50.0	54.9		ug/L		110	80 - 120
Chlorodibromomethane	50.0	64.4		ug/L		129	71 - 136
Chloroethane	50.0	45.3		ug/L		91	50 - 151
Chloroform	50.0	53.3		ug/L		107	79 - 122
Chloromethane	50.0	47.8		ug/L		96	63 - 126
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 122
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 133
Dichlorobromomethane	50.0	57.6		ug/L		115	77 - 129
Ethylbenzene	50.0	56.5		ug/L		113	80 - 120
Methylene Chloride	50.0	52.7		ug/L		105	76 - 129
Styrene	50.0	58.6		ug/L		117	80 - 122
Tetrachloroethene	50.0	55.8		ug/L		112	77 - 123
Toluene	50.0	54.7		ug/L		109	80 - 122
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	78 - 123
trans-1,3-Dichloropropene	50.0	57.3		ug/L		115	74 - 140
Trichloroethene	50.0	56.0		ug/L		112	80 - 123
Vinyl chloride	50.0	48.1		ug/L		96	68 - 132
Xylenes, Total	100	112		ug/L		112	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*110*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: LCSD 680-368407/5
Matrix: Water
Analysis Batch: 368407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.2		ug/L		102	74 - 128	8	20
1,1,2,2-Tetrachloroethane	50.0	52.2		ug/L		104	72 - 128	6	20
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	79 - 125	3	20
1,1-Dichloroethane	50.0	50.5		ug/L		101	80 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-368407/5
Matrix: Water
Analysis Batch: 368407

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	47.6		ug/L		95	74 - 125	4	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	75 - 130	2	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 123	1	20
2-Butanone (MEK)	250	277		ug/L		111	75 - 133	3	30
2-Hexanone	250	240		ug/L		96	70 - 141	4	40
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	75 - 135	1	30
Acetone	250	233		ug/L		93	60 - 154	4	40
Benzene	50.0	53.6		ug/L		107	73 - 131	2	30
Bromoform	50.0	60.5		ug/L		121	69 - 135	7	20
Bromomethane	50.0	44.7		ug/L		89	20 - 180	3	40
Carbon disulfide	50.0	48.0		ug/L		96	73 - 127	8	20
Carbon tetrachloride	50.0	56.3		ug/L		113	75 - 130	2	20
Chlorobenzene	50.0	52.9		ug/L		106	80 - 120	4	20
Chlorodibromomethane	50.0	61.8		ug/L		124	71 - 136	4	20
Chloroethane	50.0	43.8		ug/L		88	50 - 151	3	30
Chloroform	50.0	52.5		ug/L		105	79 - 122	1	20
Chloromethane	50.0	44.3		ug/L		89	63 - 126	8	30
cis-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 122	1	20
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 133	0	20
Dichlorobromomethane	50.0	55.6		ug/L		111	77 - 129	4	20
Ethylbenzene	50.0	53.9		ug/L		108	80 - 120	5	20
Methylene Chloride	50.0	49.5		ug/L		99	76 - 129	6	20
Styrene	50.0	55.0		ug/L		110	80 - 122	6	20
Tetrachloroethene	50.0	53.7		ug/L		107	77 - 123	4	20
Toluene	50.0	53.3		ug/L		107	80 - 122	3	20
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	78 - 123	0	20
trans-1,3-Dichloropropene	50.0	60.7		ug/L		121	74 - 140	6	20
Trichloroethene	50.0	54.8		ug/L		110	80 - 123	2	20
Vinyl chloride	50.0	44.7		ug/L		89	68 - 132	7	30
Xylenes, Total	100	109		ug/L		109	80 - 120	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: MB 680-368576/9
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			01/28/15 11:20	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			01/28/15 11:20	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			01/28/15 11:20	1
1,1-Dichloroethane	<1.0		1.0		ug/L			01/28/15 11:20	1
1,1-Dichloroethene	<1.0		1.0		ug/L			01/28/15 11:20	1
1,2-Dichloroethane	<1.0		1.0		ug/L			01/28/15 11:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-368576/9
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			01/28/15 11:20	1
2-Butanone (MEK)	<10		10		ug/L			01/28/15 11:20	1
2-Hexanone	<10		10		ug/L			01/28/15 11:20	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			01/28/15 11:20	1
Acetone	<10		10		ug/L			01/28/15 11:20	1
Benzene	<1.0		1.0		ug/L			01/28/15 11:20	1
Bromoform	<1.0		1.0		ug/L			01/28/15 11:20	1
Bromomethane	<5.0		5.0		ug/L			01/28/15 11:20	1
Carbon disulfide	<2.0		2.0		ug/L			01/28/15 11:20	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/28/15 11:20	1
Chlorobenzene	<1.0		1.0		ug/L			01/28/15 11:20	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/28/15 11:20	1
Chloroethane	<5.0		5.0		ug/L			01/28/15 11:20	1
Chloroform	<1.0		1.0		ug/L			01/28/15 11:20	1
Chloromethane	<1.0		1.0		ug/L			01/28/15 11:20	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 11:20	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 11:20	1
Dichlorobromomethane	<1.0		1.0		ug/L			01/28/15 11:20	1
Ethylbenzene	<1.0		1.0		ug/L			01/28/15 11:20	1
Methylene Chloride	<5.0		5.0		ug/L			01/28/15 11:20	1
Styrene	<1.0		1.0		ug/L			01/28/15 11:20	1
Tetrachloroethene	<1.0		1.0		ug/L			01/28/15 11:20	1
Toluene	<1.0		1.0		ug/L			01/28/15 11:20	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			01/28/15 11:20	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			01/28/15 11:20	1
Trichloroethene	<1.0		1.0		ug/L			01/28/15 11:20	1
Vinyl chloride	<1.0		1.0		ug/L			01/28/15 11:20	1
Xylenes, Total	<1.0		1.0		ug/L			01/28/15 11:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*01/28/15 11:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*01/28/15 11:20*	*1*
Dibromofluoromethane (Surr)	*107*		*70 - 130*		*01/28/15 11:20*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*01/28/15 11:20*	*1*

Lab Sample ID: LCS 680-368576/5
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	74 - 128
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	72 - 128
1,1,2-Trichloroethane	50.0	50.1		ug/L		100	79 - 125
1,1-Dichloroethane	50.0	51.7		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	46.9		ug/L		94	74 - 125
1,2-Dichloroethane	50.0	52.1		ug/L		104	75 - 130
1,2-Dichloropropane	50.0	51.6		ug/L		103	80 - 123
2-Butanone (MEK)	250	248		ug/L		99	75 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-368576/5
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	279		ug/L		112	70 - 141
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	75 - 135
Acetone	250	242		ug/L		97	60 - 154
Benzene	50.0	52.0		ug/L		104	73 - 131
Bromoform	50.0	53.4		ug/L		107	69 - 135
Bromomethane	50.0	41.8		ug/L		84	20 - 180
Carbon disulfide	50.0	51.1		ug/L		102	73 - 127
Carbon tetrachloride	50.0	43.5		ug/L		87	75 - 130
Chlorobenzene	50.0	49.4		ug/L		99	80 - 120
Chlorodibromomethane	50.0	52.6		ug/L		105	71 - 136
Chloroethane	50.0	49.3		ug/L		99	50 - 151
Chloroform	50.0	51.2		ug/L		102	79 - 122
Chloromethane	50.0	46.3		ug/L		93	63 - 126
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 122
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	80 - 133
Dichlorobromomethane	50.0	54.0		ug/L		108	77 - 129
Ethylbenzene	50.0	47.1		ug/L		94	80 - 120
Methylene Chloride	50.0	50.7		ug/L		101	76 - 129
Styrene	50.0	48.1		ug/L		96	80 - 122
Tetrachloroethene	50.0	50.9		ug/L		102	77 - 123
Toluene	50.0	54.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	78 - 123
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	74 - 140
Trichloroethene	50.0	54.0		ug/L		108	80 - 123
Vinyl chloride	50.0	46.8		ug/L		94	68 - 132
Xylenes, Total	100	95.0		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*109*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-368576/6
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	56.4		ug/L		113	74 - 128	8	20
1,1,2,2-Tetrachloroethane	50.0	48.9		ug/L		98	72 - 128	3	20
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	79 - 125	6	20
1,1-Dichloroethane	50.0	53.8		ug/L		108	80 - 120	4	20
1,1-Dichloroethene	50.0	50.5		ug/L		101	74 - 125	8	20
1,2-Dichloroethane	50.0	53.8		ug/L		108	75 - 130	3	20
1,2-Dichloropropane	50.0	53.4		ug/L		107	80 - 123	4	20
2-Butanone (MEK)	250	266		ug/L		107	75 - 133	7	30
2-Hexanone	250	289		ug/L		116	70 - 141	3	40
4-Methyl-2-pentanone (MIBK)	250	285		ug/L		114	75 - 135	2	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-368576/6
Matrix: Water
Analysis Batch: 368576

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	243		ug/L		97	60 - 154	0	40
Benzene			50.0	54.5		ug/L		109	73 - 131	5	30
Bromoform			50.0	51.6		ug/L		103	69 - 135	3	20
Bromomethane			50.0	48.1		ug/L		96	20 - 180	14	40
Carbon disulfide			50.0	54.0		ug/L		108	73 - 127	6	20
Carbon tetrachloride			50.0	48.3		ug/L		97	75 - 130	10	20
Chlorobenzene			50.0	50.2		ug/L		100	80 - 120	2	20
Chlorodibromomethane			50.0	55.1		ug/L		110	71 - 136	5	20
Chloroethane			50.0	49.6		ug/L		99	50 - 151	1	30
Chloroform			50.0	53.0		ug/L		106	79 - 122	4	20
Chloromethane			50.0	46.0		ug/L		92	63 - 126	1	30
cis-1,2-Dichloroethene			50.0	56.9		ug/L		114	80 - 122	11	20
cis-1,3-Dichloropropene			50.0	56.5		ug/L		113	80 - 133	4	20
Dichlorobromomethane			50.0	55.0		ug/L		110	77 - 129	2	20
Ethylbenzene			50.0	47.7		ug/L		95	80 - 120	1	20
Methylene Chloride			50.0	50.6		ug/L		101	76 - 129	0	20
Styrene			50.0	48.2		ug/L		96	80 - 122	0	20
Tetrachloroethene			50.0	56.0		ug/L		112	77 - 123	9	20
Toluene			50.0	57.5		ug/L		115	80 - 122	6	20
trans-1,2-Dichloroethene			50.0	53.1		ug/L		106	78 - 123	4	20
trans-1,3-Dichloropropene			50.0	57.1		ug/L		114	74 - 140	4	20
Trichloroethene			50.0	56.7		ug/L		113	80 - 123	5	20
Vinyl chloride			50.0	51.4		ug/L		103	68 - 132	9	30
Xylenes, Total			100	94.4		ug/L		94	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*115*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

QC Association Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

GC/MS VOA

Analysis Batch: 368407

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-109331-2	Dup-1	Total/NA	Water	8260B	
680-109331-3	MW-3B	Total/NA	Water	8260B	
680-109331-4	MW-9B	Total/NA	Water	8260B	
680-109331-6	MW-11B	Total/NA	Water	8260B	
680-109331-7	MW-11C	Total/NA	Water	8260B	
680-109331-9	MW-8C	Total/NA	Water	8260B	
680-109331-13	MW-8A	Total/NA	Water	8260B	
680-109331-15	MW-10A	Total/NA	Water	8260B	
LCS 680-368407/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-368407/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-368407/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 368576

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-109331-1	Trip Blank	Total/NA	Water	8260B	
680-109331-5	MW-9C	Total/NA	Water	8260B	
680-109331-8	MW-8B	Total/NA	Water	8260B	
680-109331-10	MW-10B	Total/NA	Water	8260B	
680-109331-11	MW-10C	Total/NA	Water	8260B	
680-109331-12	MW-3A	Total/NA	Water	8260B	
680-109331-14	MW-9A	Total/NA	Water	8260B	
680-109331-16	MW-11A	Total/NA	Water	8260B	
680-109331-17	Equipment Blank	Total/NA	Water	8260B	
LCS 680-368576/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-368576/6	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-368576/9	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: Trip Blank
Lab Sample ID: 680-109331-1
Date Collected: 01/21/15 09:00
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 14:15	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: Dup-1
Lab Sample ID: 680-109331-2
Date Collected: 01/22/15 00:00
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 14:41	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-3B
Lab Sample ID: 680-109331-3
Date Collected: 01/21/15 12:10
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 15:04	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-9B
Lab Sample ID: 680-109331-4
Date Collected: 01/21/15 10:48
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 15:26	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-9C
Lab Sample ID: 680-109331-5
Date Collected: 01/21/15 11:06
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 14:36	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-11B
Lab Sample ID: 680-109331-6
Date Collected: 01/21/15 13:17
Matrix: Water
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 16:12	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-11C — **Lab Sample ID: 680-109331-7**
Date Collected: 01/21/15 13:07 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 16:34	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-8B — **Lab Sample ID: 680-109331-8**
Date Collected: 01/21/15 14:48 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	368576	01/28/15 14:57	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-8C — **Lab Sample ID: 680-109331-9**
Date Collected: 01/21/15 14:46 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368407	01/27/15 17:19	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-10B — **Lab Sample ID: 680-109331-10**
Date Collected: 01/22/15 09:55 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 15:17	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-10C — **Lab Sample ID: 680-109331-11**
Date Collected: 01/22/15 09:46 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 15:38	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-3A — **Lab Sample ID: 680-109331-12**
Date Collected: 01/22/15 11:11 — **Matrix: Water**
Date Received: 01/24/15 08:48

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 15:59	TF1	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Client Sample ID: MW-8A
Date Collected: 01/22/15 12:07
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	368407	01/27/15 18:50	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-9A
Date Collected: 01/22/15 14:50
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	368576	01/28/15 16:19	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-10A
Date Collected: 01/22/15 15:39
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	368407	01/27/15 19:35	TF1	TAL SAV
	Instrument ID: CMSAC									

Client Sample ID: MW-11A
Date Collected: 01/22/15 16:32
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	368576	01/28/15 17:01	TF1	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: Equipment Blank
Date Collected: 01/22/15 16:40
Date Received: 01/24/15 08:48

Lab Sample ID: 680-109331-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	368576	01/28/15 12:11	TF1	TAL SAV
	Instrument ID: CMSA2									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 57337

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Altamar		GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Jerry Lanier		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Michelle Staycook	412 807 1494	877 253 6642
CLIENT NAME	CLIENT E-MAIL	
EHS Support	Michelle.Staycook@ehs-support.com	
CLIENT ADDRESS		
4694 Cemetery Road, PMB 104 Hilliard Ohio 43026		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...))

REQUIRED ANALYSIS: 8260B; PRESERVATIVE: HCl

PAGE: Page 36 of 39 | OF

STANDARD REPORT DELIVERY (X) — DATE DUE 2 weeks

EXPEDITED REPORT DELIVERY (SURCHARGE) ( ) — DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1/21/15	0900	Trip Blank	2	
1/22/15	0000	Dup-1	2	
1/21/15	1210	MW-3B	3	
1/21/15	1048	MW-9B	3	
1/21/15	1106	MW-9C	3	
1/21/15	~~1307~~ 1317	MW-11B	3	Time 1317
1/21/15	~~1307~~ 1307	MW-11C	3	Time - 1307
1/21/15	1448	MW-8B	3	
1/21/15	1446	MW-8C	3	
1/22/15	0955	MW-10B	3	
1/22/15	0946	MW-10C	3	
1/22/15	1111	MW-3A	3	

680-109331 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED	DATE	TIME
Edward Jordan	1/23/15	1100		1/23/15	1232			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	1/23/15	1100						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
D Banda	01/24/15	0848	YES ( ) NO ( )		680-109331	3.6 (CF) 3.3 °C

1/29/2015

TAL-8240-680 (1008)

Serial Number 57339

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Alterman		GA
TAL (LAB) PROJECT MANAGER	**P.O. NUMBER**	**CONTRACT NO.**
Jerry Lanier		
CLIENT (SITE) PM	**CLIENT PHONE**	**CLIENT FAX**
Michelle Stayrook	412 807 1441	877 293 6642
CLIENT NAME	**CLIENT E-MAIL**	
EHS Support	Michelle.Stayrook@ehssupport.com	
CLIENT ADDRESS		
4894 Cemetery Road, PMB 104 Hilliard Ohio 43026		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE (COMPOSITE (C) OR GRAB (G) INDICATE): AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS: 8260B; HCL PRESERVATIVE

PAGE ____ OF ____

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
1/22/15	1207	MW-8A	3	
1/22/15	1450	MW-9A	3	
1/22/15	1539	MW-10A	3	
1/22/15	1632	MW-11A	2	
1/22/15	1640	Equipment Blank	3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
Estelle Quinlan	1/23/15	1100		1/23/15	1232			
RECEIVED BY: (SIGNATURE)	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**	**RECEIVED BY: (SIGNATURE)**	**DATE**	**TIME**
	1/23/15	1100						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	01-24-15	0848	YES ◯ NO ◯		680 100331	3.6 (CF) 3.3°C

1/29/2015

Page 37 of 39

TAL 8240-680 (1008)

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-109331-1

Login Number: 109331

List Source: TestAmerica Savannah

List Number: 1

Creator: Banda, Christy S

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-109331-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-15

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-114152-1
Client Project/Site: Ashland Alterman

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Kathryn Smith

Authorized for release by:
7/10/2015 9:46:47 AM
Kathryn Smith, Project Manager II
(912)354-7858
kathy.smith@testamericainc.com

Designee for

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Method Summary 5
Definitions 6
Detection Summary 7
Client Sample Results 8
Surrogate Summary 19
QC Sample Results 20
QC Association 26
Chronicle 27
Chain of Custody 29
Receipt Checklists 30
Certification Summary 31

Job ID: 680-114152-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman

Report Number: 680-114152-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 07/02/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-22A (680-114152-1), MW-22B (680-114152-2), MW-6B (680-114152-3), MW-23B (680-114152-4), MW-1A (680-114152-5), MW-1C (680-114152-6), MW-6A (680-114152-7), MW-21B (680-114152-8), MW-21C (680-114152-9), MW-23A (680-114152-10) and TB (680-114152-11) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/06/2015 and 07/09/2015.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-390296.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 680-390780.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-114152-1	MW-22A	Water	06/30/15 14:15	07/02/15 09:29
680-114152-2	MW-22B	Water	06/30/15 14:55	07/02/15 09:29
680-114152-3	MW-6B	Water	06/30/15 16:15	07/02/15 09:29
680-114152-4	MW-23B	Water	06/30/15 17:50	07/02/15 09:29
680-114152-5	MW-1A	Water	07/01/15 11:00	07/02/15 09:29
680-114152-6	MW-1C	Water	07/01/15 12:00	07/02/15 09:29
680-114152-7	MW-6A	Water	06/30/15 16:20	07/02/15 09:29
680-114152-8	MW-21B	Water	07/01/15 11:20	07/02/15 09:29
680-114152-9	MW-21C	Water	07/01/15 12:30	07/02/15 09:29
680-114152-10	MW-23A	Water	06/30/15 18:10	07/02/15 09:29
680-114152-11	TB	Water	06/25/15 00:00	07/02/15 09:29

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Client Sample ID: MW-22A — Lab Sample ID: 680-114152-1

No Detections.

Client Sample ID: MW-22B — Lab Sample ID: 680-114152-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-6B — Lab Sample ID: 680-114152-3

No Detections.

Client Sample ID: MW-23B — Lab Sample ID: 680-114152-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	6.7		1.0		ug/L	1		8260B	Total/NA
Chloroform	7.5		1.0		ug/L	1		8260B	Total/NA
Ethylbenzene	1.1		1.0		ug/L	1		8260B	Total/NA
Toluene	5.4		1.0		ug/L	1		8260B	Total/NA
Xylenes, Total	1.8		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-1A — Lab Sample ID: 680-114152-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-1C — Lab Sample ID: 680-114152-6

No Detections.

Client Sample ID: MW-6A — Lab Sample ID: 680-114152-7

No Detections.

Client Sample ID: MW-21B — Lab Sample ID: 680-114152-8

No Detections.

Client Sample ID: MW-21C — Lab Sample ID: 680-114152-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	2.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-23A — Lab Sample ID: 680-114152-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	3.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TB — Lab Sample ID: 680-114152-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample ID: MW-22A

Lab Sample ID: 680-114152-1

Date Collected: 06/30/15 14:15

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:18	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 16:18	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:18	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:18	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:18	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:18	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 16:18	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 16:18	1
2-Hexanone	<10		10		ug/L			07/09/15 16:18	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 16:18	1
Acetone	<10		10		ug/L			07/09/15 16:18	1
Benzene	<1.0		1.0		ug/L			07/09/15 16:18	1
Bromoform	<1.0		1.0		ug/L			07/09/15 16:18	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 16:18	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 16:18	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 16:18	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 16:18	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 16:18	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 16:18	1
Chloroform	<1.0		1.0		ug/L			07/09/15 16:18	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 16:18	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:18	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:18	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 16:18	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 16:18	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 16:18	1
Styrene	<1.0		1.0		ug/L			07/09/15 16:18	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 16:18	1
Toluene	<1.0		1.0		ug/L			07/09/15 16:18	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:18	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:18	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 16:18	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 16:18	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/09/15 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/09/15 16:18*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/09/15 16:18*	*1*
4-Bromofluorobenzene (Surr)	*117*		*70 - 130*		*07/09/15 16:18*	*1*

Client Sample ID: MW-22B

Lab Sample ID: 680-114152-2

Date Collected: 06/30/15 14:55

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 16:39	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:39	1

Client Sample ID: MW-22B

Date Collected: 06/30/15 14:55
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:39	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:39	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:39	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 16:39	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 16:39	1
2-Hexanone	<10		10		ug/L			07/09/15 16:39	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 16:39	1
Acetone	<10		10		ug/L			07/09/15 16:39	1
Benzene	<1.0		1.0		ug/L			07/09/15 16:39	1
Bromoform	<1.0		1.0		ug/L			07/09/15 16:39	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 16:39	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 16:39	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 16:39	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 16:39	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 16:39	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 16:39	1
Chloroform	**2.4**		1.0		ug/L			07/09/15 16:39	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 16:39	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:39	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:39	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 16:39	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 16:39	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 16:39	1
Styrene	<1.0		1.0		ug/L			07/09/15 16:39	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 16:39	1
Toluene	<1.0		1.0		ug/L			07/09/15 16:39	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:39	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:39	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 16:39	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 16:39	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 16:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/09/15 16:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/09/15 16:39*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/09/15 16:39*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*07/09/15 16:39*	*1*

Client Sample ID: MW-6B

Date Collected: 06/30/15 16:15
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-3

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 14:36	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 14:36	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 14:36	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 14:36	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:36	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 14:36	1

Client Sample ID: MW-6B

Lab Sample ID: 680-114152-3

Date Collected: 06/30/15 16:15

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 14:36	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 14:36	1
2-Hexanone	<10		10		ug/L			07/09/15 14:36	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 14:36	1
Acetone	<10		10		ug/L			07/09/15 14:36	1
Benzene	<1.0		1.0		ug/L			07/09/15 14:36	1
Bromoform	<1.0		1.0		ug/L			07/09/15 14:36	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 14:36	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 14:36	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 14:36	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 14:36	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 14:36	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 14:36	1
Chloroform	<1.0		1.0		ug/L			07/09/15 14:36	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 14:36	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:36	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 14:36	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 14:36	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 14:36	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 14:36	1
Styrene	<1.0		1.0		ug/L			07/09/15 14:36	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 14:36	1
Toluene	<1.0		1.0		ug/L			07/09/15 14:36	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:36	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 14:36	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 14:36	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 14:36	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/09/15 14:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/09/15 14:36*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/09/15 14:36*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*07/09/15 14:36*	*1*

Client Sample ID: MW-23B

Lab Sample ID: 680-114152-4

Date Collected: 06/30/15 17:50

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:20	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 17:20	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:20	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:20	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:20	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:20	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 17:20	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 17:20	1
2-Hexanone	<10		10		ug/L			07/09/15 17:20	1

Client Sample ID: MW-23B

Date Collected: 06/30/15 17:50
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 17:20	1
Acetone	<10		10		ug/L			07/09/15 17:20	1
Benzene	**6.7**		1.0		ug/L			07/09/15 17:20	1
Bromoform	<1.0		1.0		ug/L			07/09/15 17:20	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 17:20	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 17:20	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 17:20	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 17:20	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 17:20	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 17:20	1
Chloroform	**7.5**		1.0		ug/L			07/09/15 17:20	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 17:20	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:20	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:20	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 17:20	1
Ethylbenzene	**1.1**		1.0		ug/L			07/09/15 17:20	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 17:20	1
Styrene	<1.0		1.0		ug/L			07/09/15 17:20	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 17:20	1
Toluene	**5.4**		1.0		ug/L			07/09/15 17:20	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:20	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:20	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 17:20	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 17:20	1
Xylenes, Total	**1.8**		1.0		ug/L			07/09/15 17:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/09/15 17:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/09/15 17:20*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/09/15 17:20*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*07/09/15 17:20*	*1*

Client Sample ID: MW-1A

Date Collected: 07/01/15 11:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 14:57	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 14:57	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 14:57	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 14:57	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:57	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 14:57	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 14:57	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 14:57	1
2-Hexanone	<10		10		ug/L			07/09/15 14:57	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 14:57	1
Acetone	<10		10		ug/L			07/09/15 14:57	1
Benzene	<1.0		1.0		ug/L			07/09/15 14:57	1

Client Sample ID: MW-1A

Date Collected: 07/01/15 11:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			07/09/15 14:57	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 14:57	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 14:57	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 14:57	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 14:57	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 14:57	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 14:57	1
Chloroform	<1.0		1.0		ug/L			07/09/15 14:57	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 14:57	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:57	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 14:57	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 14:57	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 14:57	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 14:57	1
Styrene	<1.0		1.0		ug/L			07/09/15 14:57	1
Tetrachloroethene	**11**		1.0		ug/L			07/09/15 14:57	1
Toluene	<1.0		1.0		ug/L			07/09/15 14:57	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 14:57	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 14:57	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 14:57	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 14:57	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 14:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/09/15 14:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/09/15 14:57*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/15 14:57*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*07/09/15 14:57*	*1*

Client Sample ID: MW-1C

Date Collected: 07/01/15 12:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 15:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 15:17	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 15:17	1
2-Hexanone	<10		10		ug/L			07/09/15 15:17	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 15:17	1
Acetone	<10		10		ug/L			07/09/15 15:17	1
Benzene	<1.0		1.0		ug/L			07/09/15 15:17	1
Bromoform	<1.0		1.0		ug/L			07/09/15 15:17	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 15:17	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 15:17	1

Client Sample ID: MW-1C

Date Collected: 07/01/15 12:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 15:17	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 15:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 15:17	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 15:17	1
Chloroform	<1.0		1.0		ug/L			07/09/15 15:17	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 15:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:17	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:17	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 15:17	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 15:17	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 15:17	1
Styrene	<1.0		1.0		ug/L			07/09/15 15:17	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 15:17	1
Toluene	<1.0		1.0		ug/L			07/09/15 15:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:17	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:17	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 15:17	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 15:17	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 15:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/09/15 15:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/09/15 15:17*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/15 15:17*	*1*
4-Bromofluorobenzene (Surr)	*114*		*70 - 130*		*07/09/15 15:17*	*1*

Client Sample ID: MW-6A

Date Collected: 06/30/15 16:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 15:38	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:38	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:38	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:38	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:38	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 15:38	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 15:38	1
2-Hexanone	<10		10		ug/L			07/09/15 15:38	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 15:38	1
Acetone	<10		10		ug/L			07/09/15 15:38	1
Benzene	<1.0		1.0		ug/L			07/09/15 15:38	1
Bromoform	<1.0		1.0		ug/L			07/09/15 15:38	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 15:38	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 15:38	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 15:38	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 15:38	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 15:38	1

Client Sample ID: MW-6A

Date Collected: 06/30/15 16:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			07/09/15 15:38	1
Chloroform	<1.0		1.0		ug/L			07/09/15 15:38	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 15:38	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:38	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:38	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 15:38	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 15:38	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 15:38	1
Styrene	<1.0		1.0		ug/L			07/09/15 15:38	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 15:38	1
Toluene	<1.0		1.0		ug/L			07/09/15 15:38	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:38	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:38	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 15:38	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 15:38	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 15:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/09/15 15:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/09/15 15:38*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/09/15 15:38*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*07/09/15 15:38*	*1*

Client Sample ID: MW-21B

Date Collected: 07/01/15 11:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:59	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 16:59	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:59	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:59	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:59	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:59	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 16:59	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 16:59	1
2-Hexanone	<10		10		ug/L			07/09/15 16:59	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 16:59	1
Acetone	<10		10		ug/L			07/09/15 16:59	1
Benzene	<1.0		1.0		ug/L			07/09/15 16:59	1
Bromoform	<1.0		1.0		ug/L			07/09/15 16:59	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 16:59	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 16:59	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 16:59	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 16:59	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 16:59	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 16:59	1
Chloroform	<1.0		1.0		ug/L			07/09/15 16:59	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 16:59	1

Client Sample ID: MW-21B

Date Collected: 07/01/15 11:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:59	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:59	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 16:59	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 16:59	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 16:59	1
Styrene	<1.0		1.0		ug/L			07/09/15 16:59	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 16:59	1
Toluene	<1.0		1.0		ug/L			07/09/15 16:59	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:59	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:59	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 16:59	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 16:59	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 16:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/09/15 16:59*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/09/15 16:59*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/09/15 16:59*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*07/09/15 16:59*	*1*

Client Sample ID: MW-21C

Date Collected: 07/01/15 12:30
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:58	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 15:58	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 15:58	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:58	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:58	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 15:58	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 15:58	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 15:58	1
2-Hexanone	<10		10		ug/L			07/09/15 15:58	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 15:58	1
Acetone	<10		10		ug/L			07/09/15 15:58	1
Benzene	<1.0		1.0		ug/L			07/09/15 15:58	1
Bromoform	<1.0		1.0		ug/L			07/09/15 15:58	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 15:58	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 15:58	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 15:58	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 15:58	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 15:58	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 15:58	1
Chloroform	**2.0**		1.0		ug/L			07/09/15 15:58	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 15:58	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:58	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:58	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 15:58	1

Client Sample ID: MW-21C

Date Collected: 07/01/15 12:30
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 15:58	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 15:58	1
Styrene	<1.0		1.0		ug/L			07/09/15 15:58	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 15:58	1
Toluene	<1.0		1.0		ug/L			07/09/15 15:58	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 15:58	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 15:58	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 15:58	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 15:58	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 15:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/09/15 15:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/09/15 15:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/09/15 15:58*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*07/09/15 15:58*	*1*

Client Sample ID: MW-23A

Date Collected: 06/30/15 18:10
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:40	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 17:40	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:40	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:40	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:40	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:40	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 17:40	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 17:40	1
2-Hexanone	<10		10		ug/L			07/09/15 17:40	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 17:40	1
Acetone	<10		10		ug/L			07/09/15 17:40	1
Benzene	<1.0		1.0		ug/L			07/09/15 17:40	1
Bromoform	<1.0		1.0		ug/L			07/09/15 17:40	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 17:40	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 17:40	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 17:40	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 17:40	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 17:40	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 17:40	1
Chloroform	**3.7**		1.0		ug/L			07/09/15 17:40	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 17:40	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:40	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:40	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 17:40	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 17:40	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 17:40	1
Styrene	<1.0		1.0		ug/L			07/09/15 17:40	1

Client Sample ID: MW-23A

Lab Sample ID: 680-114152-10

Date Collected: 06/30/15 18:10

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 17:40	1
Toluene	<1.0		1.0		ug/L			07/09/15 17:40	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:40	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:40	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 17:40	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 17:40	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 17:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/09/15 17:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/09/15 17:40*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/09/15 17:40*	*1*
4-Bromofluorobenzene (Surr)	*115*		*70 - 130*		*07/09/15 17:40*	*1*

Client Sample ID: TB

Lab Sample ID: 680-114152-11

Date Collected: 06/25/15 00:00

Matrix: Water

Date Received: 07/02/15 09:29

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/06/15 12:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/06/15 12:51	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/06/15 12:51	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/06/15 12:51	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/06/15 12:51	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/06/15 12:51	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/06/15 12:51	1
2-Butanone (MEK)	<10		10		ug/L			07/06/15 12:51	1
2-Hexanone	<10		10		ug/L			07/06/15 12:51	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/06/15 12:51	1
Acetone	<10		10		ug/L			07/06/15 12:51	1
Benzene	<1.0		1.0		ug/L			07/06/15 12:51	1
Bromoform	<1.0		1.0		ug/L			07/06/15 12:51	1
Bromomethane	<5.0		5.0		ug/L			07/06/15 12:51	1
Carbon disulfide	<2.0		2.0		ug/L			07/06/15 12:51	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/06/15 12:51	1
Chlorobenzene	<1.0		1.0		ug/L			07/06/15 12:51	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/06/15 12:51	1
Chloroethane	<5.0		5.0		ug/L			07/06/15 12:51	1
Chloroform	<1.0		1.0		ug/L			07/06/15 12:51	1
Chloromethane	<1.0		1.0		ug/L			07/06/15 12:51	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/06/15 12:51	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/06/15 12:51	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/06/15 12:51	1
Ethylbenzene	<1.0		1.0		ug/L			07/06/15 12:51	1
Methylene Chloride	<5.0		5.0		ug/L			07/06/15 12:51	1
Styrene	<1.0		1.0		ug/L			07/06/15 12:51	1
Tetrachloroethene	<1.0		1.0		ug/L			07/06/15 12:51	1
Toluene	<1.0		1.0		ug/L			07/06/15 12:51	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/06/15 12:51	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Client Sample ID: TB
Date Collected: 06/25/15 00:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/06/15 12:51	1
Trichloroethene	<1.0		1.0		ug/L			07/06/15 12:51	1
Vinyl chloride	<1.0		1.0		ug/L			07/06/15 12:51	1
Xylenes, Total	<1.0		1.0		ug/L			07/06/15 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*07/06/15 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/06/15 12:51*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/06/15 12:51*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/06/15 12:51*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-114152-1	MW-22A	100	103	103	117
680-114152-2	MW-22B	103	97	101	110
680-114152-3	MW-6B	100	101	103	120
680-114152-4	MW-23B	103	104	103	118
680-114152-5	MW-1A	101	102	104	119
680-114152-6	MW-1C	99	100	104	114
680-114152-7	MW-6A	101	101	102	120
680-114152-8	MW-21B	101	102	102	120
680-114152-9	MW-21C	102	100	102	119
680-114152-10	MW-23A	102	101	102	115
680-114152-11	TB	95	103	101	105
LCS 680-390296/4	Lab Control Sample	128	109	109	111
LCS 680-390780/4	Lab Control Sample	105	99	101	113
LCSD 680-390296/5	Lab Control Sample Dup	96	115	107	109
LCSD 680-390780/5	Lab Control Sample Dup	104	99	100	116
MB 680-390296/9	Method Blank	92	99	98	107
MB 680-390780/9	Method Blank	100	99	103	119

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-390296/9
Matrix: Water
Analysis Batch: 390296

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/06/15 11:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/06/15 11:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/06/15 11:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/06/15 11:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/06/15 11:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/06/15 11:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/06/15 11:41	1
2-Butanone (MEK)	<10		10		ug/L			07/06/15 11:41	1
2-Hexanone	<10		10		ug/L			07/06/15 11:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/06/15 11:41	1
Acetone	<10		10		ug/L			07/06/15 11:41	1
Benzene	<1.0		1.0		ug/L			07/06/15 11:41	1
Bromoform	<1.0		1.0		ug/L			07/06/15 11:41	1
Bromomethane	<5.0		5.0		ug/L			07/06/15 11:41	1
Carbon disulfide	<2.0		2.0		ug/L			07/06/15 11:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/06/15 11:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/06/15 11:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/06/15 11:41	1
Chloroethane	<5.0		5.0		ug/L			07/06/15 11:41	1
Chloroform	<1.0		1.0		ug/L			07/06/15 11:41	1
Chloromethane	<1.0		1.0		ug/L			07/06/15 11:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/06/15 11:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/06/15 11:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/06/15 11:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/06/15 11:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/06/15 11:41	1
Styrene	<1.0		1.0		ug/L			07/06/15 11:41	1
Tetrachloroethene	<1.0		1.0		ug/L			07/06/15 11:41	1
Toluene	<1.0		1.0		ug/L			07/06/15 11:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/06/15 11:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/06/15 11:41	1
Trichloroethene	<1.0		1.0		ug/L			07/06/15 11:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/06/15 11:41	1
Xylenes, Total	<1.0		1.0		ug/L			07/06/15 11:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*70 - 130*		*07/06/15 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/06/15 11:41*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/06/15 11:41*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*07/06/15 11:41*	*1*

Lab Sample ID: LCS 680-390296/4
Matrix: Water
Analysis Batch: 390296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	49.7		ug/L		99	74 - 128
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390296/4
Matrix: Water
Analysis Batch: 390296

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	79 - 125
1,1-Dichloroethane	50.0	53.2		ug/L		106	80 - 120
1,1-Dichloroethene	50.0	57.3		ug/L		115	74 - 125
1,2-Dichloroethane	50.0	55.5		ug/L		111	75 - 130
1,2-Dichloropropane	50.0	55.5		ug/L		111	80 - 123
2-Butanone (MEK)	250	258		ug/L		103	75 - 133
2-Hexanone	250	263		ug/L		105	70 - 141
4-Methyl-2-pentanone (MIBK)	250	194		ug/L		78	75 - 135
Acetone	250	226		ug/L		90	60 - 154
Benzene	50.0	55.8		ug/L		112	73 - 131
Bromoform	50.0	46.7		ug/L		93	69 - 135
Bromomethane	50.0	46.7		ug/L		93	20 - 180
Carbon disulfide	50.0	62.4		ug/L		125	73 - 127
Carbon tetrachloride	50.0	50.2		ug/L		100	75 - 130
Chlorobenzene	50.0	53.5		ug/L		107	80 - 120
Chlorodibromomethane	50.0	47.7		ug/L		95	71 - 136
Chloroethane	50.0	51.0		ug/L		102	50 - 151
Chloroform	50.0	53.3		ug/L		107	79 - 122
Chloromethane	50.0	52.5		ug/L		105	63 - 126
cis-1,2-Dichloroethene	50.0	58.4		ug/L		117	80 - 122
cis-1,3-Dichloropropene	50.0	46.9		ug/L		94	80 - 133
Dichlorobromomethane	50.0	48.6		ug/L		97	77 - 129
Ethylbenzene	50.0	57.8		ug/L		116	80 - 120
Methylene Chloride	50.0	53.1		ug/L		106	76 - 129
Styrene	50.0	51.8		ug/L		104	80 - 122
Tetrachloroethene	50.0	52.9		ug/L		106	77 - 123
Toluene	50.0	51.5		ug/L		103	80 - 122
trans-1,2-Dichloroethene	50.0	56.9		ug/L		114	78 - 123
trans-1,3-Dichloropropene	50.0	54.2		ug/L		108	74 - 140
Trichloroethene	50.0	54.5		ug/L		109	80 - 123
Vinyl chloride	50.0	56.0		ug/L		112	68 - 132
Xylenes, Total	100	113		ug/L		113	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*128*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*109*		*70 - 130*
Dibromofluoromethane (Surr)	*109*		*70 - 130*
4-Bromofluorobenzene (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 680-390296/5
Matrix: Water
Analysis Batch: 390296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	74 - 128	3	20
1,1,2,2-Tetrachloroethane	50.0	53.9		ug/L		108	72 - 128	4	20
1,1,2-Trichloroethane	50.0	53.5		ug/L		107	79 - 125	7	20
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390296/5
Matrix: Water
Analysis Batch: 390296

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	54.1		ug/L		108	74 - 125	6	20
1,2-Dichloroethane	50.0	58.9		ug/L		118	75 - 130	6	20
1,2-Dichloropropane	50.0	56.6		ug/L		113	80 - 123	2	20
2-Butanone (MEK)	250	288		ug/L		115	75 - 133	11	30
2-Hexanone	250	289		ug/L		116	70 - 141	9	40
4-Methyl-2-pentanone (MIBK)	250	216		ug/L		87	75 - 135	11	30
Acetone	250	260		ug/L		104	60 - 154	14	40
Benzene	50.0	54.8		ug/L		110	73 - 131	2	30
Bromoform	50.0	48.5		ug/L		97	69 - 135	4	20
Bromomethane	50.0	46.4		ug/L		93	20 - 180	1	40
Carbon disulfide	50.0	57.2		ug/L		114	73 - 127	9	20
Carbon tetrachloride	50.0	46.4		ug/L		93	75 - 130	8	20
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120	3	20
Chlorodibromomethane	50.0	49.9		ug/L		100	71 - 136	4	20
Chloroethane	50.0	49.3		ug/L		99	50 - 151	3	30
Chloroform	50.0	55.7		ug/L		111	79 - 122	4	20
Chloromethane	50.0	49.2		ug/L		98	63 - 126	6	30
cis-1,2-Dichloroethene	50.0	57.5		ug/L		115	80 - 122	2	20
cis-1,3-Dichloropropene	50.0	49.3		ug/L		99	80 - 133	5	20
Dichlorobromomethane	50.0	50.3		ug/L		101	77 - 129	3	20
Ethylbenzene	50.0	53.3		ug/L		107	80 - 120	8	20
Methylene Chloride	50.0	54.4		ug/L		109	76 - 129	3	20
Styrene	50.0	49.3		ug/L		99	80 - 122	5	20
Tetrachloroethene	50.0	50.2		ug/L		100	77 - 123	5	20
Toluene	50.0	51.0		ug/L		102	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	53.7		ug/L		107	78 - 123	6	20
trans-1,3-Dichloropropene	50.0	56.9		ug/L		114	74 - 140	5	20
Trichloroethene	50.0	52.0		ug/L		104	80 - 123	5	20
Vinyl chloride	50.0	51.0		ug/L		102	68 - 132	9	30
Xylenes, Total	100	105		ug/L		105	80 - 120	7	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*96*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*115*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*

Lab Sample ID: MB 680-390780/9
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 10:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:34	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-390780/9
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 10:34	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 10:34	1
2-Hexanone	<10		10		ug/L			07/09/15 10:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 10:34	1
Acetone	<10		10		ug/L			07/09/15 10:34	1
Benzene	<1.0		1.0		ug/L			07/09/15 10:34	1
Bromoform	<1.0		1.0		ug/L			07/09/15 10:34	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 10:34	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 10:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 10:34	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 10:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 10:34	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 10:34	1
Chloroform	<1.0		1.0		ug/L			07/09/15 10:34	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 10:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 10:34	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 10:34	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 10:34	1
Styrene	<1.0		1.0		ug/L			07/09/15 10:34	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 10:34	1
Toluene	<1.0		1.0		ug/L			07/09/15 10:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:34	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 10:34	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 10:34	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 10:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/09/15 10:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/09/15 10:34*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/09/15 10:34*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*07/09/15 10:34*	*1*

Lab Sample ID: LCS 680-390780/4
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.6		ug/L		107	74 - 128
1,1,2,2-Tetrachloroethane	50.0	48.2		ug/L		96	72 - 128
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	79 - 125
1,1-Dichloroethane	50.0	54.2		ug/L		108	80 - 120
1,1-Dichloroethene	50.0	47.9		ug/L		96	74 - 125
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 130
1,2-Dichloropropane	50.0	51.8		ug/L		104	80 - 123
2-Butanone (MEK)	250	260		ug/L		104	75 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390780/4
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	264		ug/L		106	70 - 141
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	75 - 135
Acetone	250	235		ug/L		94	60 - 154
Benzene	50.0	51.3		ug/L		103	73 - 131
Bromoform	50.0	41.9		ug/L		84	69 - 135
Bromomethane	50.0	41.1		ug/L		82	20 - 180
Carbon disulfide	50.0	44.3		ug/L		89	73 - 127
Carbon tetrachloride	50.0	47.6		ug/L		95	75 - 130
Chlorobenzene	50.0	48.9		ug/L		98	80 - 120
Chlorodibromomethane	50.0	45.0		ug/L		90	71 - 136
Chloroethane	50.0	69.4		ug/L		139	50 - 151
Chloroform	50.0	50.6		ug/L		101	79 - 122
Chloromethane	50.0	41.5		ug/L		83	63 - 126
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	80 - 122
cis-1,3-Dichloropropene	50.0	54.9		ug/L		110	80 - 133
Dichlorobromomethane	50.0	54.1		ug/L		108	77 - 129
Ethylbenzene	50.0	54.1		ug/L		108	80 - 120
Methylene Chloride	50.0	45.9		ug/L		92	76 - 129
Styrene	50.0	52.5		ug/L		105	80 - 122
Tetrachloroethene	50.0	49.1		ug/L		98	77 - 123
Toluene	50.0	52.6		ug/L		105	80 - 122
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 123
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	74 - 140
Trichloroethene	50.0	51.2		ug/L		102	80 - 123
Vinyl chloride	50.0	43.5		ug/L		87	68 - 132
Xylenes, Total	100	108		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*113*		*70 - 130*

Lab Sample ID: LCSD 680-390780/5
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	53.0		ug/L		106	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	49.7		ug/L		99	72 - 128	3	20
1,1,2-Trichloroethane	50.0	50.2		ug/L		100	79 - 125	0	20
1,1-Dichloroethane	50.0	54.1		ug/L		108	80 - 120	0	20
1,1-Dichloroethene	50.0	48.8		ug/L		98	74 - 125	2	20
1,2-Dichloroethane	50.0	49.1		ug/L		98	75 - 130	0	20
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 123	1	20
2-Butanone (MEK)	250	258		ug/L		103	75 - 133	1	30
2-Hexanone	250	265		ug/L		106	70 - 141	0	40
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	75 - 135	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390780/5
Matrix: Water
Analysis Batch: 390780

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	241		ug/L		96	60 - 154	2	40
Benzene			50.0	51.3		ug/L		103	73 - 131	0	30
Bromoform			50.0	42.5		ug/L		85	69 - 135	1	20
Bromomethane			50.0	46.6		ug/L		93	20 - 180	12	40
Carbon disulfide			50.0	45.4		ug/L		91	73 - 127	3	20
Carbon tetrachloride			50.0	47.1		ug/L		94	75 - 130	1	20
Chlorobenzene			50.0	49.8		ug/L		100	80 - 120	2	20
Chlorodibromomethane			50.0	44.8		ug/L		90	71 - 136	0	20
Chloroethane			50.0	69.5		ug/L		139	50 - 151	0	30
Chloroform			50.0	51.0		ug/L		102	79 - 122	1	20
Chloromethane			50.0	43.6		ug/L		87	63 - 126	5	30
cis-1,2-Dichloroethene			50.0	53.3		ug/L		107	80 - 122	1	20
cis-1,3-Dichloropropene			50.0	54.9		ug/L		110	80 - 133	0	20
Dichlorobromomethane			50.0	54.0		ug/L		108	77 - 129	0	20
Ethylbenzene			50.0	54.3		ug/L		109	80 - 120	0	20
Methylene Chloride			50.0	46.1		ug/L		92	76 - 129	0	20
Styrene			50.0	53.1		ug/L		106	80 - 122	1	20
Tetrachloroethene			50.0	49.0		ug/L		98	77 - 123	0	20
Toluene			50.0	52.6		ug/L		105	80 - 122	0	20
trans-1,2-Dichloroethene			50.0	52.2		ug/L		104	78 - 123	1	20
trans-1,3-Dichloropropene			50.0	54.1		ug/L		108	74 - 140	1	20
Trichloroethene			50.0	51.6		ug/L		103	80 - 123	1	20
Vinyl chloride			50.0	43.5		ug/L		87	68 - 132	0	30
Xylenes, Total			100	109		ug/L		109	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*104*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*116*		*70 - 130*

QC Association Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

GC/MS VOA

Analysis Batch: 390296

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114152-11	TB	Total/NA	Water	8260B	
LCS 680-390296/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390296/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390296/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 390780

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114152-1	MW-22A	Total/NA	Water	8260B	
680-114152-2	MW-22B	Total/NA	Water	8260B	
680-114152-3	MW-6B	Total/NA	Water	8260B	
680-114152-4	MW-23B	Total/NA	Water	8260B	
680-114152-5	MW-1A	Total/NA	Water	8260B	
680-114152-6	MW-1C	Total/NA	Water	8260B	
680-114152-7	MW-6A	Total/NA	Water	8260B	
680-114152-8	MW-21B	Total/NA	Water	8260B	
680-114152-9	MW-21C	Total/NA	Water	8260B	
680-114152-10	MW-23A	Total/NA	Water	8260B	
LCS 680-390780/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390780/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390780/9	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Client Sample ID: MW-22A
Date Collected: 06/30/15 14:15
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 16:18	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-22B
Date Collected: 06/30/15 14:55
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 16:39	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-6B
Date Collected: 06/30/15 16:15
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 14:36	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-23B
Date Collected: 06/30/15 17:50
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 17:20	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-1A
Date Collected: 07/01/15 11:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 14:57	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-1C
Date Collected: 07/01/15 12:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 15:17	MMT	TAL SAV
	Instrument ID: CMSA2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Client Sample ID: MW-6A
Date Collected: 06/30/15 16:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 15:38	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-21B
Date Collected: 07/01/15 11:20
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 16:59	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-21C
Date Collected: 07/01/15 12:30
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 15:58	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: MW-23A
Date Collected: 06/30/15 18:10
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390780	07/09/15 17:40	MMT	TAL SAV
	Instrument ID: CMSA2									

Client Sample ID: TB
Date Collected: 06/25/15 00:00
Date Received: 07/02/15 09:29

Lab Sample ID: 680-114152-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390296	07/06/15 12:51	MMT	TAL SAV
	Instrument ID: CMSAC									

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 91984

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

○ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

○ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Alluvial		
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
Jerry Lanier		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Darin Hintz	678-346-8809	
CLIENT NAME	CLIENT E-MAIL	
Antea Group	darin.hintz@anteagroup.com	
CLIENT ADDRESS		
4940 Peachtree Ind blvd Norcross GA 30071		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○

DATE DUE _____

EXPEDITED REPORT DELIVERY (SURCHARGE) ○

DATE DUE _____

NUMBER OF COOLERS SUBMITTED PER SHIPMENT

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: HCL 8260 C	Nitrate/Nitrite as N by E353.2	D/C	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6-30-15	1415	MW-22A	G	✓				3				
6-30-15	1455	MW-22B	G	✓				3				
6-30-15	1615	MW-6B	G	✓				3				
6-30-15	1750	MW-23B	G	✓				3				
7-1-15	1100	MW-1A	G	✓				3				
7-1-15	1200	MW-1C	G	✓				3				
~~6-30-15~~	~~2nd 1810~~	~~MW~~	~~D~~	~~K~~				~~3~~				
6-30-15	1620	MW-6A	G	✓				3				
7-1-15	1120	MW-21B	G	✓				3				
7-1-15	1230	MW-21C	G	✓				3				
6-30-15	1810	MW-23A	G	✓				3				
6-25-15	0000	TB						3				

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7-1-15	1310		7/1/15	1620			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7-1-15	13:10						

680-114152 Chain of Custody

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SAVANNAH LOG NO.	LABORATORY REMARKS
	7/2/15	09:29	YES ○ NO ○		680-114152	1.8/2.3

TAL8240-680 (1008)

Page 23 of 31

7/10/2015

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114152-1

Login Number: 114152
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114152-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-15 *
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15 *
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-15 *
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	06-30-15 *
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15 *
New Jersey	NELAP	2	GA769	09-30-15
New Mexico	State Program	6	N/A	06-30-15 *
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-15
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-114236-1
Client Project/Site: Ashland Alterman
Revision: 1

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Jerry Lanier

Authorized for release by:
7/15/2015 5:18:39 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 4
Method Summary 5
Definitions 6
Detection Summary 7
Client Sample Results 10
Surrogate Summary 32
QC Sample Results 33
QC Association 48
Chronicle 49
Chain of Custody 54
Receipt Checklists 56
Certification Summary 57

Job ID: 680-114236-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman

Report Number: 680-114236-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 07/07/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.7 C.

The final report was revised to report lower detections for 8260B in samples -1 and -17.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-11B (680-114236-1), MW-11C (680-114236-2), MW-8C (680-114236-3), MW-14A (680-114236-4), MW-24C (680-114236-5), MW-20C (680-114236-6), MW-12A (680-114236-7), MW-10C (680-114236-8), MW-10B (680-114236-9), MW-3A (680-114236-10), DUP-1 (680-114236-11), TB (680-114236-12), MW-5A (680-114236-13), MW-7C (680-114236-14), MW-3B (680-114236-15), MW-7B (680-114236-16), MW-19A (680-114236-17), MW-4B (680-114236-18), MW-9C (680-114236-19), MW-9B (680-114236-20), MW-4A (680-114236-21), MW-18B (680-114236-22) and MW-18A (680-114236-23) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/08/2015, 07/09/2015 and 07/10/2015.

The following analyte recovered outside control limits for the LCSD associated with analytical batch 680-390778: Tetrachloroethene. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

Samples MW-11B (680-114236-1)[5X] and MW-19A (680-114236-17)[5X] required dilution prior to analysis. Sample MW-11B (680-114236-1) was diluted due to color. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-390774, 680-390778, 680-390579, and 680-390983, .

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-114236-1	MW-11B	Water	07/02/15 14:40	07/07/15 09:27
680-114236-2	MW-11C	Water	07/02/15 16:00	07/07/15 09:27
680-114236-3	MW-8C	Water	07/02/15 11:45	07/07/15 09:27
680-114236-4	MW-14A	Water	07/02/15 13:42	07/07/15 09:27
680-114236-5	MW-24C	Water	07/02/15 14:50	07/07/15 09:27
680-114236-6	MW-20C	Water	07/02/15 15:57	07/07/15 09:27
680-114236-7	MW-12A	Water	07/02/15 17:07	07/07/15 09:27
680-114236-8	MW-10C	Water	07/02/15 17:20	07/07/15 09:27
680-114236-9	MW-10B	Water	07/02/15 18:20	07/07/15 09:27
680-114236-10	MW-3A	Water	07/02/15 18:08	07/07/15 09:27
680-114236-11	DUP-1	Water	07/02/15 00:00	07/07/15 09:27
680-114236-12	TB	Water	06/25/15 00:00	07/07/15 09:27
680-114236-13	MW-5A	Water	07/01/15 15:00	07/07/15 09:27
680-114236-14	MW-7C	Water	07/01/15 15:00	07/07/15 09:27
680-114236-15	MW-3B	Water	07/01/15 13:15	07/07/15 09:27
680-114236-16	MW-7B	Water	07/01/15 16:05	07/07/15 09:27
680-114236-17	MW-19A	Water	07/01/15 16:30	07/07/15 09:27
680-114236-18	MW-4B	Water	07/01/15 18:00	07/07/15 09:27
680-114236-19	MW-9C	Water	07/01/15 17:42	07/07/15 09:27
680-114236-20	MW-9B	Water	07/02/15 10:10	07/07/15 09:27
680-114236-21	MW-4A	Water	07/02/15 10:30	07/07/15 09:27
680-114236-22	MW-18B	Water	07/02/15 11:45	07/07/15 09:27
680-114236-23	MW-18A	Water	07/02/15 12:50	07/07/15 09:27

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-11B — Lab Sample ID: 680-114236-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	28		20		ug/L	2		8260B	Total/NA

Client Sample ID: MW-11C — Lab Sample ID: 680-114236-2

No Detections.

Client Sample ID: MW-8C — Lab Sample ID: 680-114236-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	96		10		ug/L	1		8260B	Total/NA
Acetone	77		10		ug/L	1		8260B	Total/NA

Client Sample ID: MW-14A — Lab Sample ID: 680-114236-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-24C — Lab Sample ID: 680-114236-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.8		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	41		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-20C — Lab Sample ID: 680-114236-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	4.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	53		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	5.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-12A — Lab Sample ID: 680-114236-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-10C — Lab Sample ID: 680-114236-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		10		ug/L	1		8260B	Total/NA
Tetrachloroethene	3.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-10B — Lab Sample ID: 680-114236-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		10		ug/L	1		8260B	Total/NA

Client Sample ID: MW-3A — Lab Sample ID: 680-114236-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: DUP-1 — Lab Sample ID: 680-114236-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TB — Lab Sample ID: 680-114236-12

No Detections.

Client Sample ID: MW-5A — Lab Sample ID: 680-114236-13

No Detections.

Client Sample ID: MW-7C — Lab Sample ID: 680-114236-14

No Detections.

Client Sample ID: MW-3B — Lab Sample ID: 680-114236-15

No Detections.

Client Sample ID: MW-7B — Lab Sample ID: 680-114236-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	5.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19A — Lab Sample ID: 680-114236-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,2-Dichloroethane	68		1.0		ug/L	1		8260B	Total/NA
1,2-Dichloropropane	2.0		1.0		ug/L	1		8260B	Total/NA
Benzene	450		5.0		ug/L	5		8260B	Total/NA
Ethylbenzene	12		1.0		ug/L	1		8260B	Total/NA
Styrene	1.8		1.0		ug/L	1		8260B	Total/NA
Xylenes, Total	63		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-4B — Lab Sample ID: 680-114236-18

No Detections.

Client Sample ID: MW-9C — Lab Sample ID: 680-114236-19

No Detections.

Client Sample ID: MW-9B — Lab Sample ID: 680-114236-20

No Detections.

Client Sample ID: MW-4A — Lab Sample ID: 680-114236-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.2	*	1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-18B — Lab Sample ID: 680-114236-22

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample ID: MW-18B (Continued) — Lab Sample ID: 680-114236-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.1	*	1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-18A — Lab Sample ID: 680-114236-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	1.3	*	1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-11B

Lab Sample ID: 680-114236-1

Date Collected: 07/02/15 14:40

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/14/15 18:20	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/14/15 18:20	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			07/14/15 18:20	2
1,1-Dichloroethane	<2.0		2.0		ug/L			07/14/15 18:20	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/14/15 18:20	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/14/15 18:20	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/14/15 18:20	2
2-Butanone (MEK)	<20		20		ug/L			07/14/15 18:20	2
2-Hexanone	<20		20		ug/L			07/14/15 18:20	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			07/14/15 18:20	2
Acetone	**28**		20		ug/L			07/14/15 18:20	2
Benzene	<2.0		2.0		ug/L			07/14/15 18:20	2
Bromoform	<2.0		2.0		ug/L			07/14/15 18:20	2
Bromomethane	<10		10		ug/L			07/14/15 18:20	2
Carbon disulfide	<4.0		4.0		ug/L			07/14/15 18:20	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/14/15 18:20	2
Chlorobenzene	<2.0		2.0		ug/L			07/14/15 18:20	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/14/15 18:20	2
Chloroethane	<10		10		ug/L			07/14/15 18:20	2
Chloroform	<2.0		2.0		ug/L			07/14/15 18:20	2
Chloromethane	<2.0		2.0		ug/L			07/14/15 18:20	2
cis-1,2-Dichloroethene	<2.0		2.0		ug/L			07/14/15 18:20	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			07/14/15 18:20	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/14/15 18:20	2
Ethylbenzene	<2.0		2.0		ug/L			07/14/15 18:20	2
Methylene Chloride	<10		10		ug/L			07/14/15 18:20	2
Styrene	<2.0		2.0		ug/L			07/14/15 18:20	2
Tetrachloroethene	<2.0		2.0		ug/L			07/14/15 18:20	2
Toluene	<2.0		2.0		ug/L			07/14/15 18:20	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/14/15 18:20	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			07/14/15 18:20	2
Trichloroethene	<2.0		2.0		ug/L			07/14/15 18:20	2
Vinyl chloride	<2.0		2.0		ug/L			07/14/15 18:20	2
Xylenes, Total	<2.0		2.0		ug/L			07/14/15 18:20	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*85*		*70 - 130*		*07/14/15 18:20*	*2*
1,2-Dichloroethane-d4 (Surr)	*82*		*70 - 130*		*07/14/15 18:20*	*2*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*07/14/15 18:20*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/14/15 18:20*	*2*

Client Sample ID: MW-11C

Lab Sample ID: 680-114236-2

Date Collected: 07/02/15 16:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:08	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 12:08	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:08	1

Client Sample ID: MW-11C

Date Collected: 07/02/15 16:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:08	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:08	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:08	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 12:08	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 12:08	1
2-Hexanone	<10		10		ug/L			07/08/15 12:08	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 12:08	1
Acetone	<10		10		ug/L			07/08/15 12:08	1
Benzene	<1.0		1.0		ug/L			07/08/15 12:08	1
Bromoform	<1.0		1.0		ug/L			07/08/15 12:08	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 12:08	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 12:08	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 12:08	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 12:08	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 12:08	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 12:08	1
Chloroform	<1.0		1.0		ug/L			07/08/15 12:08	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 12:08	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:08	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:08	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 12:08	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 12:08	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 12:08	1
Styrene	<1.0		1.0		ug/L			07/08/15 12:08	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/15 12:08	1
Toluene	<1.0		1.0		ug/L			07/08/15 12:08	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:08	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:08	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 12:08	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 12:08	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 12:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/08/15 12:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 12:08*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 12:08*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/08/15 12:08*	*1*

Client Sample ID: MW-8C

Date Collected: 07/02/15 11:45
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:29	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 12:29	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:29	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:29	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:29	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:29	1

Client Sample ID: MW-8C

Lab Sample ID: 680-114236-3

Date Collected: 07/02/15 11:45

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 12:29	1
2-Butanone (MEK)	**96**		10		ug/L			07/08/15 12:29	1
2-Hexanone	<10		10		ug/L			07/08/15 12:29	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 12:29	1
Acetone	**77**		10		ug/L			07/08/15 12:29	1
Benzene	<1.0		1.0		ug/L			07/08/15 12:29	1
Bromoform	<1.0		1.0		ug/L			07/08/15 12:29	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 12:29	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 12:29	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 12:29	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 12:29	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 12:29	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 12:29	1
Chloroform	<1.0		1.0		ug/L			07/08/15 12:29	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 12:29	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:29	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:29	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 12:29	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 12:29	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 12:29	1
Styrene	<1.0		1.0		ug/L			07/08/15 12:29	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/15 12:29	1
Toluene	<1.0		1.0		ug/L			07/08/15 12:29	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:29	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:29	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 12:29	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 12:29	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 12:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 12:29*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/08/15 12:29*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/08/15 12:29*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 12:29*	*1*

Client Sample ID: MW-14A

Lab Sample ID: 680-114236-4

Date Collected: 07/02/15 13:42

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 12:51	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 12:51	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:51	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:51	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 12:51	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 12:51	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 12:51	1
2-Hexanone	<10		10		ug/L			07/08/15 12:51	1

Client Sample ID: MW-14A

Date Collected: 07/02/15 13:42
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 12:51	1
Acetone	<10		10		ug/L			07/08/15 12:51	1
Benzene	<1.0		1.0		ug/L			07/08/15 12:51	1
Bromoform	<1.0		1.0		ug/L			07/08/15 12:51	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 12:51	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 12:51	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 12:51	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 12:51	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 12:51	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 12:51	1
Chloroform	<1.0		1.0		ug/L			07/08/15 12:51	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 12:51	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:51	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:51	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 12:51	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 12:51	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 12:51	1
Styrene	<1.0		1.0		ug/L			07/08/15 12:51	1
Tetrachloroethene	**7.7**		1.0		ug/L			07/08/15 12:51	1
Toluene	<1.0		1.0		ug/L			07/08/15 12:51	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 12:51	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 12:51	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 12:51	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 12:51	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 12:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 12:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/08/15 12:51*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 12:51*	*1*

Client Sample ID: MW-24C

Date Collected: 07/02/15 14:50
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 13:12	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:12	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:12	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:12	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:12	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 13:12	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 13:12	1
2-Hexanone	<10		10		ug/L			07/08/15 13:12	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 13:12	1
Acetone	<10		10		ug/L			07/08/15 13:12	1
Benzene	<1.0		1.0		ug/L			07/08/15 13:12	1

Client Sample ID: MW-24C

Date Collected: 07/02/15 14:50
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			07/08/15 13:12	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 13:12	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 13:12	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 13:12	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 13:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 13:12	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 13:12	1
Chloroform	**1.8**		1.0		ug/L			07/08/15 13:12	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 13:12	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:12	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:12	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 13:12	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 13:12	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 13:12	1
Styrene	<1.0		1.0		ug/L			07/08/15 13:12	1
Tetrachloroethene	**41**		1.0		ug/L			07/08/15 13:12	1
Toluene	<1.0		1.0		ug/L			07/08/15 13:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:12	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:12	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 13:12	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 13:12	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*07/08/15 13:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/08/15 13:12*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 13:12*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 13:12*	*1*

Client Sample ID: MW-20C

Date Collected: 07/02/15 15:57
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 13:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 13:34	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 13:34	1
2-Hexanone	<10		10		ug/L			07/08/15 13:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 13:34	1
Acetone	<10		10		ug/L			07/08/15 13:34	1
Benzene	<1.0		1.0		ug/L			07/08/15 13:34	1
Bromoform	<1.0		1.0		ug/L			07/08/15 13:34	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 13:34	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 13:34	1

Client Sample ID: MW-20C

Date Collected: 07/02/15 15:57
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 13:34	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 13:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 13:34	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 13:34	1
Chloroform	<1.0		1.0		ug/L			07/08/15 13:34	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 13:34	1
cis-1,2-Dichloroethene	**4.9**		1.0		ug/L			07/08/15 13:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 13:34	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 13:34	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 13:34	1
Styrene	<1.0		1.0		ug/L			07/08/15 13:34	1
Tetrachloroethene	**53**		1.0		ug/L			07/08/15 13:34	1
Toluene	<1.0		1.0		ug/L			07/08/15 13:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:34	1
Trichloroethene	**5.0**		1.0		ug/L			07/08/15 13:34	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 13:34	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/08/15 13:34*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 13:34*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 13:34*	*1*

Client Sample ID: MW-12A

Date Collected: 07/02/15 17:07
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:55	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 13:55	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 13:55	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:55	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:55	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 13:55	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 13:55	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 13:55	1
2-Hexanone	<10		10		ug/L			07/08/15 13:55	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 13:55	1
Acetone	<10		10		ug/L			07/08/15 13:55	1
Benzene	<1.0		1.0		ug/L			07/08/15 13:55	1
Bromoform	<1.0		1.0		ug/L			07/08/15 13:55	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 13:55	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 13:55	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 13:55	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 13:55	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 13:55	1

Client Sample ID: MW-12A

Date Collected: 07/02/15 17:07
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			07/08/15 13:55	1
Chloroform	<1.0		1.0		ug/L			07/08/15 13:55	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 13:55	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:55	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:55	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 13:55	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 13:55	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 13:55	1
Styrene	<1.0		1.0		ug/L			07/08/15 13:55	1
Tetrachloroethene	**5.7**		1.0		ug/L			07/08/15 13:55	1
Toluene	<1.0		1.0		ug/L			07/08/15 13:55	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 13:55	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 13:55	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 13:55	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 13:55	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/08/15 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 13:55*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 13:55*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 13:55*	*1*

Client Sample ID: MW-10C

Date Collected: 07/02/15 17:20
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-8

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 14:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 14:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 14:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 14:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 14:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 14:17	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 14:17	1
2-Hexanone	<10		10		ug/L			07/08/15 14:17	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 14:17	1
Acetone	**12**		10		ug/L			07/08/15 14:17	1
Benzene	<1.0		1.0		ug/L			07/08/15 14:17	1
Bromoform	<1.0		1.0		ug/L			07/08/15 14:17	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 14:17	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 14:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 14:17	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 14:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 14:17	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 14:17	1
Chloroform	<1.0		1.0		ug/L			07/08/15 14:17	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 14:17	1

Client Sample ID: MW-10C

Lab Sample ID: 680-114236-8

Date Collected: 07/02/15 17:20

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:17	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 14:17	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 14:17	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 14:17	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 14:17	1
Styrene	<1.0		1.0		ug/L			07/08/15 14:17	1
Tetrachloroethene	**3.4**		1.0		ug/L			07/08/15 14:17	1
Toluene	<1.0		1.0		ug/L			07/08/15 14:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:17	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 14:17	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 14:17	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 14:17	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 14:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/08/15 14:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 14:17*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 14:17*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 14:17*	*1*

Client Sample ID: MW-10B

Lab Sample ID: 680-114236-9

Date Collected: 07/02/15 18:20

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 14:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 14:38	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 14:38	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 14:38	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:38	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 14:38	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 14:38	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 14:38	1
2-Hexanone	<10		10		ug/L			07/08/15 14:38	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 14:38	1
Acetone	**16**		10		ug/L			07/08/15 14:38	1
Benzene	<1.0		1.0		ug/L			07/08/15 14:38	1
Bromoform	<1.0		1.0		ug/L			07/08/15 14:38	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 14:38	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 14:38	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 14:38	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 14:38	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 14:38	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 14:38	1
Chloroform	<1.0		1.0		ug/L			07/08/15 14:38	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 14:38	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:38	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 14:38	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 14:38	1

Client Sample ID: MW-10B

Date Collected: 07/02/15 18:20
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 14:38	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 14:38	1
Styrene	<1.0		1.0		ug/L			07/08/15 14:38	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/15 14:38	1
Toluene	<1.0		1.0		ug/L			07/08/15 14:38	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 14:38	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 14:38	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 14:38	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 14:38	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 14:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 14:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 14:38*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/08/15 14:38*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 14:38*	*1*

Client Sample ID: MW-3A

Date Collected: 07/02/15 18:08
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 15:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 15:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 15:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 15:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 15:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 15:00	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 15:00	1
2-Hexanone	<10		10		ug/L			07/08/15 15:00	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 15:00	1
Acetone	<10		10		ug/L			07/08/15 15:00	1
Benzene	<1.0		1.0		ug/L			07/08/15 15:00	1
Bromoform	<1.0		1.0		ug/L			07/08/15 15:00	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 15:00	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 15:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 15:00	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 15:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 15:00	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 15:00	1
Chloroform	<1.0		1.0		ug/L			07/08/15 15:00	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 15:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:00	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 15:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 15:00	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 15:00	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 15:00	1
Styrene	<1.0		1.0		ug/L			07/08/15 15:00	1

Client Sample ID: MW-3A

Date Collected: 07/02/15 18:08
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	11		1.0		ug/L			07/08/15 15:00	1
Toluene	<1.0		1.0		ug/L			07/08/15 15:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:00	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 15:00	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 15:00	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 15:00	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/08/15 15:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 15:00*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 15:00*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/08/15 15:00*	*1*

Client Sample ID: DUP-1

Date Collected: 07/02/15 00:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 15:21	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 15:21	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 15:21	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 15:21	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:21	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 15:21	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 15:21	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 15:21	1
2-Hexanone	<10		10		ug/L			07/08/15 15:21	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 15:21	1
Acetone	<10		10		ug/L			07/08/15 15:21	1
Benzene	<1.0		1.0		ug/L			07/08/15 15:21	1
Bromoform	<1.0		1.0		ug/L			07/08/15 15:21	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 15:21	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 15:21	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 15:21	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 15:21	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 15:21	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 15:21	1
Chloroform	<1.0		1.0		ug/L			07/08/15 15:21	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 15:21	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:21	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 15:21	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 15:21	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 15:21	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 15:21	1
Styrene	<1.0		1.0		ug/L			07/08/15 15:21	1
Tetrachloroethene	2.3		1.0		ug/L			07/08/15 15:21	1
Toluene	<1.0		1.0		ug/L			07/08/15 15:21	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 15:21	1

Client Sample ID: DUP-1

Lab Sample ID: 680-114236-11

Date Collected: 07/02/15 00:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 15:21	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 15:21	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 15:21	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 15:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 15:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/08/15 15:21*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/08/15 15:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/08/15 15:21*	*1*

Client Sample ID: TB

Lab Sample ID: 680-114236-12

Date Collected: 06/25/15 00:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 11:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 11:25	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 11:25	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 11:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 11:25	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 11:25	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 11:25	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 11:25	1
2-Hexanone	<10		10		ug/L			07/08/15 11:25	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 11:25	1
Acetone	<10		10		ug/L			07/08/15 11:25	1
Benzene	<1.0		1.0		ug/L			07/08/15 11:25	1
Bromoform	<1.0		1.0		ug/L			07/08/15 11:25	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 11:25	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 11:25	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 11:25	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 11:25	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 11:25	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 11:25	1
Chloroform	<1.0		1.0		ug/L			07/08/15 11:25	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 11:25	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 11:25	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 11:25	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 11:25	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 11:25	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 11:25	1
Styrene	<1.0		1.0		ug/L			07/08/15 11:25	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/15 11:25	1
Toluene	<1.0		1.0		ug/L			07/08/15 11:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 11:25	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 11:25	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 11:25	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 11:25	1

Client Sample ID: TB

Lab Sample ID: 680-114236-12

Date Collected: 06/25/15 00:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 11:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 11:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/08/15 11:25*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 11:25*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/08/15 11:25*	*1*

Client Sample ID: MW-5A

Lab Sample ID: 680-114236-13

Date Collected: 07/01/15 15:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:35	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 16:35	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:35	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:35	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:35	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:35	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 16:35	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 16:35	1
2-Hexanone	<10		10		ug/L			07/09/15 16:35	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 16:35	1
Acetone	<10		10		ug/L			07/09/15 16:35	1
Benzene	<1.0		1.0		ug/L			07/09/15 16:35	1
Bromoform	<1.0		1.0		ug/L			07/09/15 16:35	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 16:35	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 16:35	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 16:35	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 16:35	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 16:35	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 16:35	1
Chloroform	<1.0		1.0		ug/L			07/09/15 16:35	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 16:35	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:35	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:35	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 16:35	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 16:35	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 16:35	1
Styrene	<1.0		1.0		ug/L			07/09/15 16:35	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 16:35	1
Toluene	<1.0		1.0		ug/L			07/09/15 16:35	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:35	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:35	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 16:35	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 16:35	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 16:35	1

Client Sample ID: MW-5A

Date Collected: 07/01/15 15:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-13
Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*109*		*70 - 130*		*07/09/15 16:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*07/09/15 16:35*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*07/09/15 16:35*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/09/15 16:35*	*1*

Client Sample ID: MW-7C

Date Collected: 07/01/15 15:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:56	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 16:56	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 16:56	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:56	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:56	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 16:56	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 16:56	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 16:56	1
2-Hexanone	<10		10		ug/L			07/09/15 16:56	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 16:56	1
Acetone	<10		10		ug/L			07/09/15 16:56	1
Benzene	<1.0		1.0		ug/L			07/09/15 16:56	1
Bromoform	<1.0		1.0		ug/L			07/09/15 16:56	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 16:56	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 16:56	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 16:56	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 16:56	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 16:56	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 16:56	1
Chloroform	<1.0		1.0		ug/L			07/09/15 16:56	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 16:56	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:56	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:56	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 16:56	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 16:56	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 16:56	1
Styrene	<1.0		1.0		ug/L			07/09/15 16:56	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 16:56	1
Toluene	<1.0		1.0		ug/L			07/09/15 16:56	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 16:56	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 16:56	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 16:56	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 16:56	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 16:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*07/09/15 16:56*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*07/09/15 16:56*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*07/09/15 16:56*	*1*

Client Sample ID: MW-7C

Date Collected: 07/01/15 15:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/09/15 16:56*	*1*

Client Sample ID: MW-3B

Date Collected: 07/01/15 13:15
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:17	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 17:17	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:17	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:17	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:17	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:17	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 17:17	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 17:17	1
2-Hexanone	<10		10		ug/L			07/09/15 17:17	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 17:17	1
Acetone	<10		10		ug/L			07/09/15 17:17	1
Benzene	<1.0		1.0		ug/L			07/09/15 17:17	1
Bromoform	<1.0		1.0		ug/L			07/09/15 17:17	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 17:17	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 17:17	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 17:17	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 17:17	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 17:17	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 17:17	1
Chloroform	<1.0		1.0		ug/L			07/09/15 17:17	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 17:17	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:17	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:17	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 17:17	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 17:17	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 17:17	1
Styrene	<1.0		1.0		ug/L			07/09/15 17:17	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 17:17	1
Toluene	<1.0		1.0		ug/L			07/09/15 17:17	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:17	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:17	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 17:17	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 17:17	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	*109*		*70 - 130*		*07/09/15 17:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*07/09/15 17:17*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/09/15 17:17*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/09/15 17:17*	*1*

Client Sample ID: MW-7B

Date Collected: 07/01/15 16:05
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-16
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:38	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 17:38	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 17:38	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:38	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:38	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 17:38	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 17:38	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 17:38	1
2-Hexanone	<10		10		ug/L			07/09/15 17:38	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 17:38	1
Acetone	<10		10		ug/L			07/09/15 17:38	1
Benzene	<1.0		1.0		ug/L			07/09/15 17:38	1
Bromoform	<1.0		1.0		ug/L			07/09/15 17:38	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 17:38	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 17:38	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 17:38	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 17:38	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 17:38	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 17:38	1
Chloroform	<1.0		1.0		ug/L			07/09/15 17:38	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 17:38	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:38	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:38	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 17:38	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 17:38	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 17:38	1
Styrene	<1.0		1.0		ug/L			07/09/15 17:38	1
Tetrachloroethene	**5.4**		1.0		ug/L			07/09/15 17:38	1
Toluene	<1.0		1.0		ug/L			07/09/15 17:38	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 17:38	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 17:38	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 17:38	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 17:38	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 17:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*110*		*70 - 130*		*07/09/15 17:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*07/09/15 17:38*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/09/15 17:38*	*1*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/09/15 17:38*	*1*

Client Sample ID: MW-19A

Date Collected: 07/01/15 16:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/14/15 18:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/14/15 18:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/14/15 18:42	1

Client Sample ID: MW-19A

Date Collected: 07/01/15 16:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/14/15 18:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/14/15 18:42	1
1,2-Dichloroethane	**68**		1.0		ug/L			07/14/15 18:42	1
1,2-Dichloropropane	**2.0**		1.0		ug/L			07/14/15 18:42	1
2-Butanone (MEK)	<10		10		ug/L			07/14/15 18:42	1
2-Hexanone	<10		10		ug/L			07/14/15 18:42	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/14/15 18:42	1
Acetone	<10		10		ug/L			07/14/15 18:42	1
Benzene	**450**		5.0		ug/L			07/10/15 16:10	5
Bromoform	<1.0		1.0		ug/L			07/14/15 18:42	1
Bromomethane	<5.0		5.0		ug/L			07/14/15 18:42	1
Carbon disulfide	<2.0		2.0		ug/L			07/14/15 18:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/14/15 18:42	1
Chlorobenzene	<1.0		1.0		ug/L			07/14/15 18:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/14/15 18:42	1
Chloroethane	<5.0		5.0		ug/L			07/14/15 18:42	1
Chloroform	<1.0		1.0		ug/L			07/14/15 18:42	1
Chloromethane	<1.0		1.0		ug/L			07/14/15 18:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/14/15 18:42	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/14/15 18:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/14/15 18:42	1
Ethylbenzene	**12**		1.0		ug/L			07/14/15 18:42	1
Methylene Chloride	<5.0		5.0		ug/L			07/14/15 18:42	1
Styrene	**1.8**		1.0		ug/L			07/14/15 18:42	1
Tetrachloroethene	<1.0		1.0		ug/L			07/14/15 18:42	1
Toluene	<1.0		1.0		ug/L			07/14/15 18:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/14/15 18:42	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/14/15 18:42	1
Trichloroethene	<1.0		1.0		ug/L			07/14/15 18:42	1
Vinyl chloride	<1.0		1.0		ug/L			07/14/15 18:42	1
Xylenes, Total	**63**		1.0		ug/L			07/14/15 18:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/10/15 16:10*	*5*
Toluene-d8 (Surr)	*118*		*70 - 130*		*07/14/15 18:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*70 - 130*		*07/10/15 16:10*	*5*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*		*07/14/15 18:42*	*1*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/10/15 16:10*	*5*
Dibromofluoromethane (Surr)	*85*		*70 - 130*		*07/14/15 18:42*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/10/15 16:10*	*5*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/14/15 18:42*	*1*

Client Sample ID: MW-4B

Date Collected: 07/01/15 18:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 11:16	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 11:16	1

Client Sample ID: MW-4B

Lab Sample ID: 680-114236-18

Date Collected: 07/01/15 18:00

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 11:16	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 11:16	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:16	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 11:16	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 11:16	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 11:16	1
2-Hexanone	<10		10		ug/L			07/09/15 11:16	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 11:16	1
Acetone	<10		10		ug/L			07/09/15 11:16	1
Benzene	<1.0		1.0		ug/L			07/09/15 11:16	1
Bromoform	<1.0		1.0		ug/L			07/09/15 11:16	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 11:16	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 11:16	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 11:16	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 11:16	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 11:16	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 11:16	1
Chloroform	<1.0		1.0		ug/L			07/09/15 11:16	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 11:16	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:16	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 11:16	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 11:16	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 11:16	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 11:16	1
Styrene	<1.0		1.0		ug/L			07/09/15 11:16	1
Tetrachloroethene	<1.0	*	1.0		ug/L			07/09/15 11:16	1
Toluene	<1.0		1.0		ug/L			07/09/15 11:16	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:16	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 11:16	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 11:16	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 11:16	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 11:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*07/09/15 11:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*07/09/15 11:16*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/09/15 11:16*	*1*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*07/09/15 11:16*	*1*

Client Sample ID: MW-9C

Lab Sample ID: 680-114236-19

Date Collected: 07/01/15 17:42

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 11:39	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 11:39	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 11:39	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 11:39	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:39	1

Client Sample ID: MW-9C

Lab Sample ID: 680-114236-19

Date Collected: 07/01/15 17:42

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 11:39	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 11:39	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 11:39	1
2-Hexanone	<10		10		ug/L			07/09/15 11:39	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 11:39	1
Acetone	<10		10		ug/L			07/09/15 11:39	1
Benzene	<1.0		1.0		ug/L			07/09/15 11:39	1
Bromoform	<1.0		1.0		ug/L			07/09/15 11:39	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 11:39	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 11:39	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 11:39	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 11:39	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 11:39	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 11:39	1
Chloroform	<1.0		1.0		ug/L			07/09/15 11:39	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 11:39	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:39	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 11:39	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 11:39	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 11:39	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 11:39	1
Styrene	<1.0		1.0		ug/L			07/09/15 11:39	1
Tetrachloroethene	<1.0	*	1.0		ug/L			07/09/15 11:39	1
Toluene	<1.0		1.0		ug/L			07/09/15 11:39	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 11:39	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 11:39	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 11:39	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 11:39	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/09/15 11:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*86*		*70 - 130*		*07/09/15 11:39*	*1*
Dibromofluoromethane (Surr)	*93*		*70 - 130*		*07/09/15 11:39*	*1*
4-Bromofluorobenzene (Surr)	*83*		*70 - 130*		*07/09/15 11:39*	*1*

Client Sample ID: MW-9B

Lab Sample ID: 680-114236-20

Date Collected: 07/02/15 10:10

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:01	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 12:01	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:01	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:01	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:01	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:01	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 12:01	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 12:01	1

Client Sample ID: MW-9B

Date Collected: 07/02/15 10:10
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	<10		10		ug/L			07/09/15 12:01	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 12:01	1
Acetone	<10		10		ug/L			07/09/15 12:01	1
Benzene	<1.0		1.0		ug/L			07/09/15 12:01	1
Bromoform	<1.0		1.0		ug/L			07/09/15 12:01	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 12:01	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 12:01	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 12:01	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 12:01	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 12:01	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 12:01	1
Chloroform	<1.0		1.0		ug/L			07/09/15 12:01	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 12:01	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:01	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:01	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 12:01	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 12:01	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 12:01	1
Styrene	<1.0		1.0		ug/L			07/09/15 12:01	1
Tetrachloroethene	<1.0	*	1.0		ug/L			07/09/15 12:01	1
Toluene	<1.0		1.0		ug/L			07/09/15 12:01	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:01	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:01	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 12:01	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 12:01	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 12:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/09/15 12:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*87*		*70 - 130*		*07/09/15 12:01*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/09/15 12:01*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*07/09/15 12:01*	*1*

Client Sample ID: MW-4A

Date Collected: 07/02/15 10:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-21

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 12:24	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:24	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 12:24	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 12:24	1
2-Hexanone	<10		10		ug/L			07/09/15 12:24	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 12:24	1
Acetone	<10		10		ug/L			07/09/15 12:24	1

Client Sample ID: MW-4A

Date Collected: 07/02/15 10:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<1.0		1.0		ug/L			07/09/15 12:24	1
Bromoform	<1.0		1.0		ug/L			07/09/15 12:24	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 12:24	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 12:24	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 12:24	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 12:24	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 12:24	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 12:24	1
Chloroform	<1.0		1.0		ug/L			07/09/15 12:24	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 12:24	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:24	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:24	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 12:24	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 12:24	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 12:24	1
Styrene	<1.0		1.0		ug/L			07/09/15 12:24	1
Tetrachloroethene	**1.2**	*	1.0		ug/L			07/09/15 12:24	1
Toluene	<1.0		1.0		ug/L			07/09/15 12:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:24	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:24	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 12:24	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 12:24	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 12:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*07/09/15 12:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*		*07/09/15 12:24*	*1*
Dibromofluoromethane (Surr)	*90*		*70 - 130*		*07/09/15 12:24*	*1*
4-Bromofluorobenzene (Surr)	*82*		*70 - 130*		*07/09/15 12:24*	*1*

Client Sample ID: MW-18B

Date Collected: 07/02/15 11:45
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 12:47	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 12:47	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:47	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:47	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 12:47	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 12:47	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 12:47	1
2-Hexanone	<10		10		ug/L			07/09/15 12:47	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 12:47	1
Acetone	<10		10		ug/L			07/09/15 12:47	1
Benzene	<1.0		1.0		ug/L			07/09/15 12:47	1
Bromoform	<1.0		1.0		ug/L			07/09/15 12:47	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 12:47	1

Client Sample ID: MW-18B

Lab Sample ID: 680-114236-22

Date Collected: 07/02/15 11:45

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 12:47	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 12:47	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 12:47	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 12:47	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 12:47	1
Chloroform	<1.0		1.0		ug/L			07/09/15 12:47	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 12:47	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:47	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:47	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 12:47	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 12:47	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 12:47	1
Styrene	<1.0		1.0		ug/L			07/09/15 12:47	1
Tetrachloroethene	**2.1**	*	1.0		ug/L			07/09/15 12:47	1
Toluene	<1.0		1.0		ug/L			07/09/15 12:47	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 12:47	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 12:47	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 12:47	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 12:47	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*126*		*70 - 130*		*07/09/15 12:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*76*		*70 - 130*		*07/09/15 12:47*	*1*
Dibromofluoromethane (Surr)	*92*		*70 - 130*		*07/09/15 12:47*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/09/15 12:47*	*1*

Client Sample ID: MW-18A

Lab Sample ID: 680-114236-23

Date Collected: 07/02/15 12:50

Matrix: Water

Date Received: 07/07/15 09:27

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 13:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 13:09	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 13:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 13:09	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 13:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 13:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 13:09	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 13:09	1
2-Hexanone	<10		10		ug/L			07/09/15 13:09	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 13:09	1
Acetone	<10		10		ug/L			07/09/15 13:09	1
Benzene	<1.0		1.0		ug/L			07/09/15 13:09	1
Bromoform	<1.0		1.0		ug/L			07/09/15 13:09	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 13:09	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 13:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 13:09	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 13:09	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-18A
Date Collected: 07/02/15 12:50
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-23
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 13:09	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 13:09	1
Chloroform	<1.0		1.0		ug/L			07/09/15 13:09	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 13:09	1
cis-1,2-Dichloroethene	**1.0**		1.0		ug/L			07/09/15 13:09	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 13:09	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 13:09	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 13:09	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 13:09	1
Styrene	<1.0		1.0		ug/L			07/09/15 13:09	1
Tetrachloroethene	**1.3**	*	1.0		ug/L			07/09/15 13:09	1
Toluene	<1.0		1.0		ug/L			07/09/15 13:09	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 13:09	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 13:09	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 13:09	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 13:09	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*107*		*70 - 130*		*07/09/15 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*70 - 130*		*07/09/15 13:09*	*1*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*07/09/15 13:09*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/09/15 13:09*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-114236-1	MW-11B	85	82	93	98
680-114236-2	MW-11C	106	98	102	102
680-114236-3	MW-8C	105	97	100	101
680-114236-4	MW-14A	105	98	103	101
680-114236-5	MW-24C	107	97	102	101
680-114236-6	MW-20C	105	97	102	101
680-114236-7	MW-12A	106	98	102	101
680-114236-8	MW-10C	106	98	102	101
680-114236-9	MW-10B	105	98	104	101
680-114236-10	MW-3A	106	98	102	101
680-114236-11	DUP-1	105	98	103	102
680-114236-12	TB	105	97	102	103
680-114236-13	MW-5A	109	91	97	98
680-114236-14	MW-7C	108	92	97	97
680-114236-15	MW-3B	109	92	98	98
680-114236-16	MW-7B	110	93	98	98
680-114236-17	MW-19A	99	107	110	101
680-114236-17	MW-19A	118	89	85	96
680-114236-18	MW-4B	108	85	100	107
680-114236-19	MW-9C	106	86	93	83
680-114236-20	MW-9B	105	87	102	106
680-114236-21	MW-4A	107	77	90	82
680-114236-22	MW-18B	126	76	92	105
680-114236-23	MW-18A	107	88	94	96
LCS 680-390579/4	Lab Control Sample	105	94	102	101
LCS 680-390774/4	Lab Control Sample	103	106	104	96
LCS 680-390778/4	Lab Control Sample	107	75	84	101
LCS 680-390983/4	Lab Control Sample	100	104	106	99
LCS 680-391337/7	Lab Control Sample	98	99	100	103
LCSD 680-390579/5	Lab Control Sample Dup	105	95	101	102
LCSD 680-390774/5	Lab Control Sample Dup	106	105	103	98
LCSD 680-390778/5	Lab Control Sample Dup	108	84	93	93
LCSD 680-390983/5	Lab Control Sample Dup	101	100	104	100
LCSD 680-391337/31	Lab Control Sample Dup	83	108	106	96
MB 680-390579/9	Method Blank	105	97	102	102
MB 680-390774/9	Method Blank	108	91	98	96
MB 680-390778/9	Method Blank	106	85	104	105
MB 680-390983/9	Method Blank	105	97	102	102
MB 680-391337/11	Method Blank	133 X	77	80	106

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-390579/9
Matrix: Water
Analysis Batch: 390579

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/08/15 10:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/08/15 10:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/08/15 10:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/08/15 10:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/08/15 10:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/08/15 10:42	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/08/15 10:42	1
2-Butanone (MEK)	<10		10		ug/L			07/08/15 10:42	1
2-Hexanone	<10		10		ug/L			07/08/15 10:42	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/08/15 10:42	1
Acetone	<10		10		ug/L			07/08/15 10:42	1
Benzene	<1.0		1.0		ug/L			07/08/15 10:42	1
Bromoform	<1.0		1.0		ug/L			07/08/15 10:42	1
Bromomethane	<5.0		5.0		ug/L			07/08/15 10:42	1
Carbon disulfide	<2.0		2.0		ug/L			07/08/15 10:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/08/15 10:42	1
Chlorobenzene	<1.0		1.0		ug/L			07/08/15 10:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/08/15 10:42	1
Chloroethane	<5.0		5.0		ug/L			07/08/15 10:42	1
Chloroform	<1.0		1.0		ug/L			07/08/15 10:42	1
Chloromethane	<1.0		1.0		ug/L			07/08/15 10:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 10:42	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 10:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/08/15 10:42	1
Ethylbenzene	<1.0		1.0		ug/L			07/08/15 10:42	1
Methylene Chloride	<5.0		5.0		ug/L			07/08/15 10:42	1
Styrene	<1.0		1.0		ug/L			07/08/15 10:42	1
Tetrachloroethene	<1.0		1.0		ug/L			07/08/15 10:42	1
Toluene	<1.0		1.0		ug/L			07/08/15 10:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/08/15 10:42	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/08/15 10:42	1
Trichloroethene	<1.0		1.0		ug/L			07/08/15 10:42	1
Vinyl chloride	<1.0		1.0		ug/L			07/08/15 10:42	1
Xylenes, Total	<1.0		1.0		ug/L			07/08/15 10:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/08/15 10:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/08/15 10:42*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/08/15 10:42*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/08/15 10:42*	*1*

Lab Sample ID: LCS 680-390579/4
Matrix: Water
Analysis Batch: 390579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.6		ug/L		109	74 - 128
1,1,2,2-Tetrachloroethane	50.0	50.2		ug/L		100	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390579/4
Matrix: Water
Analysis Batch: 390579

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	47.0		ug/L		94	79 - 125
1,1-Dichloroethane	50.0	49.7		ug/L		99	80 - 120
1,1-Dichloroethene	50.0	50.6		ug/L		101	74 - 125
1,2-Dichloroethane	50.0	47.6		ug/L		95	75 - 130
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 123
2-Butanone (MEK)	250	244		ug/L		98	75 - 133
2-Hexanone	250	238		ug/L		95	70 - 141
4-Methyl-2-pentanone (MIBK)	250	243		ug/L		97	75 - 135
Acetone	250	236		ug/L		95	60 - 154
Benzene	50.0	49.2		ug/L		98	73 - 131
Bromoform	50.0	58.2		ug/L		116	69 - 135
Bromomethane	50.0	68.8		ug/L		138	20 - 180
Carbon disulfide	50.0	50.4		ug/L		101	73 - 127
Carbon tetrachloride	50.0	63.5		ug/L		127	75 - 130
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chlorodibromomethane	50.0	46.5		ug/L		93	71 - 136
Chloroethane	50.0	53.9		ug/L		108	50 - 151
Chloroform	50.0	50.1		ug/L		100	79 - 122
Chloromethane	50.0	51.9		ug/L		104	63 - 126
cis-1,2-Dichloroethene	50.0	44.8		ug/L		90	80 - 122
cis-1,3-Dichloropropene	50.0	51.2		ug/L		102	80 - 133
Dichlorobromomethane	50.0	53.1		ug/L		106	77 - 129
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120
Methylene Chloride	50.0	48.1		ug/L		96	76 - 129
Styrene	50.0	51.3		ug/L		103	80 - 122
Tetrachloroethene	50.0	50.0		ug/L		100	77 - 123
Toluene	50.0	49.5		ug/L		99	80 - 122
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	50.7		ug/L		101	74 - 140
Trichloroethene	50.0	50.1		ug/L		100	80 - 123
Vinyl chloride	50.0	51.2		ug/L		102	68 - 132
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-390579/5
Matrix: Water
Analysis Batch: 390579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.4		ug/L		109	74 - 128	0	20
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	72 - 128	0	20
1,1,2-Trichloroethane	50.0	48.0		ug/L		96	79 - 125	2	20
1,1-Dichloroethane	50.0	49.8		ug/L		100	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390579/5
Matrix: Water
Analysis Batch: 390579

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	50.0		ug/L		100	74 - 125	1	20
1,2-Dichloroethane	50.0	47.4		ug/L		95	75 - 130	0	20
1,2-Dichloropropane	50.0	50.0		ug/L		100	80 - 123	1	20
2-Butanone (MEK)	250	248		ug/L		99	75 - 133	2	30
2-Hexanone	250	240		ug/L		96	70 - 141	1	40
4-Methyl-2-pentanone (MIBK)	250	248		ug/L		99	75 - 135	2	30
Acetone	250	242		ug/L		97	60 - 154	2	40
Benzene	50.0	49.1		ug/L		98	73 - 131	0	30
Bromoform	50.0	58.9		ug/L		118	69 - 135	1	20
Bromomethane	50.0	70.6		ug/L		141	20 - 180	3	40
Carbon disulfide	50.0	50.2		ug/L		100	73 - 127	0	20
Carbon tetrachloride	50.0	63.8		ug/L		128	75 - 130	1	20
Chlorobenzene	50.0	50.7		ug/L		101	80 - 120	0	20
Chlorodibromomethane	50.0	47.5		ug/L		95	71 - 136	2	20
Chloroethane	50.0	53.7		ug/L		107	50 - 151	0	30
Chloroform	50.0	50.4		ug/L		101	79 - 122	1	20
Chloromethane	50.0	51.4		ug/L		103	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	44.9		ug/L		90	80 - 122	0	20
cis-1,3-Dichloropropene	50.0	51.4		ug/L		103	80 - 133	1	20
Dichlorobromomethane	50.0	53.6		ug/L		107	77 - 129	1	20
Ethylbenzene	50.0	51.5		ug/L		103	80 - 120	0	20
Methylene Chloride	50.0	47.5		ug/L		95	76 - 129	1	20
Styrene	50.0	51.6		ug/L		103	80 - 122	1	20
Tetrachloroethene	50.0	50.3		ug/L		101	77 - 123	1	20
Toluene	50.0	49.3		ug/L		99	80 - 122	0	20
trans-1,2-Dichloroethene	50.0	49.4		ug/L		99	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	74 - 140	2	20
Trichloroethene	50.0	49.8		ug/L		100	80 - 123	1	20
Vinyl chloride	50.0	50.9		ug/L		102	68 - 132	1	30
Xylenes, Total	100	102		ug/L		102	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*105*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*

Lab Sample ID: MB 680-390774/9
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:35	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 10:35	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:35	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:35	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:35	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:35	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-390774/9
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 10:35	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 10:35	1
2-Hexanone	<10		10		ug/L			07/09/15 10:35	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 10:35	1
Acetone	<10		10		ug/L			07/09/15 10:35	1
Benzene	<1.0		1.0		ug/L			07/09/15 10:35	1
Bromoform	<1.0		1.0		ug/L			07/09/15 10:35	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 10:35	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 10:35	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 10:35	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 10:35	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 10:35	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 10:35	1
Chloroform	<1.0		1.0		ug/L			07/09/15 10:35	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 10:35	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:35	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:35	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 10:35	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 10:35	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 10:35	1
Styrene	<1.0		1.0		ug/L			07/09/15 10:35	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 10:35	1
Toluene	<1.0		1.0		ug/L			07/09/15 10:35	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:35	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:35	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 10:35	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 10:35	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 10:35	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*07/09/15 10:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 130*		*07/09/15 10:35*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/09/15 10:35*	*1*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/09/15 10:35*	*1*

Lab Sample ID: LCS 680-390774/4
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	74 - 128
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	72 - 128
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	79 - 125
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120
1,1-Dichloroethene	50.0	44.6		ug/L		89	74 - 125
1,2-Dichloroethane	50.0	53.4		ug/L		107	75 - 130
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 123
2-Butanone (MEK)	250	255		ug/L		102	75 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390774/4
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	257		ug/L		103	70 - 141
4-Methyl-2-pentanone (MIBK)	250	255		ug/L		102	75 - 135
Acetone	250	234		ug/L		94	60 - 154
Benzene	50.0	48.8		ug/L		98	73 - 131
Bromoform	50.0	52.8		ug/L		106	69 - 135
Bromomethane	50.0	46.0		ug/L		92	20 - 180
Carbon disulfide	50.0	47.8		ug/L		96	73 - 127
Carbon tetrachloride	50.0	49.0		ug/L		98	75 - 130
Chlorobenzene	50.0	49.0		ug/L		98	80 - 120
Chlorodibromomethane	50.0	53.6		ug/L		107	71 - 136
Chloroethane	50.0	34.3		ug/L		69	50 - 151
Chloroform	50.0	50.4		ug/L		101	79 - 122
Chloromethane	50.0	43.5		ug/L		87	63 - 126
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 122
cis-1,3-Dichloropropene	50.0	54.2		ug/L		108	80 - 133
Dichlorobromomethane	50.0	53.0		ug/L		106	77 - 129
Ethylbenzene	50.0	47.7		ug/L		95	80 - 120
Methylene Chloride	50.0	52.9		ug/L		106	76 - 129
Styrene	50.0	50.6		ug/L		101	80 - 122
Tetrachloroethene	50.0	46.8		ug/L		94	77 - 123
Toluene	50.0	49.6		ug/L		99	80 - 122
trans-1,2-Dichloroethene	50.0	46.7		ug/L		93	78 - 123
trans-1,3-Dichloropropene	50.0	56.7		ug/L		113	74 - 140
Trichloroethene	50.0	48.4		ug/L		97	80 - 123
Vinyl chloride	50.0	42.4		ug/L		85	68 - 132
Xylenes, Total	100	97.7		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*106*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

Lab Sample ID: LCSD 680-390774/5
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	49.2		ug/L		98	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	72 - 128	0	20
1,1,2-Trichloroethane	50.0	52.3		ug/L		105	79 - 125	2	20
1,1-Dichloroethane	50.0	51.2		ug/L		102	80 - 120	2	20
1,1-Dichloroethene	50.0	47.0		ug/L		94	74 - 125	5	20
1,2-Dichloroethane	50.0	54.7		ug/L		109	75 - 130	2	20
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 123	1	20
2-Butanone (MEK)	250	244		ug/L		98	75 - 133	4	30
2-Hexanone	250	255		ug/L		102	70 - 141	1	40
4-Methyl-2-pentanone (MIBK)	250	255		ug/L		102	75 - 135	0	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390774/5
Matrix: Water
Analysis Batch: 390774

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	226		ug/L		90	60 - 154	4	40
Benzene			50.0	48.8		ug/L		98	73 - 131	0	30
Bromoform			50.0	53.0		ug/L		106	69 - 135	0	20
Bromomethane			50.0	42.3		ug/L		85	20 - 180	8	40
Carbon disulfide			50.0	48.1		ug/L		96	73 - 127	1	20
Carbon tetrachloride			50.0	48.0		ug/L		96	75 - 130	2	20
Chlorobenzene			50.0	49.9		ug/L		100	80 - 120	2	20
Chlorodibromomethane			50.0	52.3		ug/L		105	71 - 136	2	20
Chloroethane			50.0	35.7		ug/L		71	50 - 151	4	30
Chloroform			50.0	50.5		ug/L		101	79 - 122	0	20
Chloromethane			50.0	42.4		ug/L		85	63 - 126	3	30
cis-1,2-Dichloroethene			50.0	50.0		ug/L		100	80 - 122	1	20
cis-1,3-Dichloropropene			50.0	54.0		ug/L		108	80 - 133	0	20
Dichlorobromomethane			50.0	53.5		ug/L		107	77 - 129	1	20
Ethylbenzene			50.0	48.8		ug/L		98	80 - 120	2	20
Methylene Chloride			50.0	53.3		ug/L		107	76 - 129	1	20
Styrene			50.0	51.3		ug/L		103	80 - 122	1	20
Tetrachloroethene			50.0	47.0		ug/L		94	77 - 123	0	20
Toluene			50.0	49.6		ug/L		99	80 - 122	0	20
trans-1,2-Dichloroethene			50.0	47.8		ug/L		96	78 - 123	2	20
trans-1,3-Dichloropropene			50.0	55.7		ug/L		111	74 - 140	2	20
Trichloroethene			50.0	48.5		ug/L		97	80 - 123	0	20
Vinyl chloride			50.0	40.1		ug/L		80	68 - 132	6	30
Xylenes, Total			100	98.9		ug/L		99	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-390778/9
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/09/15 10:53	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/09/15 10:53	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:53	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/09/15 10:53	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/09/15 10:53	1
2-Butanone (MEK)	<10		10		ug/L			07/09/15 10:53	1
2-Hexanone	<10		10		ug/L			07/09/15 10:53	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/09/15 10:53	1
Acetone	<10		10		ug/L			07/09/15 10:53	1
Benzene	<1.0		1.0		ug/L			07/09/15 10:53	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-390778/9
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			07/09/15 10:53	1
Bromomethane	<5.0		5.0		ug/L			07/09/15 10:53	1
Carbon disulfide	<2.0		2.0		ug/L			07/09/15 10:53	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/09/15 10:53	1
Chlorobenzene	<1.0		1.0		ug/L			07/09/15 10:53	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/09/15 10:53	1
Chloroethane	<5.0		5.0		ug/L			07/09/15 10:53	1
Chloroform	<1.0		1.0		ug/L			07/09/15 10:53	1
Chloromethane	<1.0		1.0		ug/L			07/09/15 10:53	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:53	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:53	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/09/15 10:53	1
Ethylbenzene	<1.0		1.0		ug/L			07/09/15 10:53	1
Methylene Chloride	<5.0		5.0		ug/L			07/09/15 10:53	1
Styrene	<1.0		1.0		ug/L			07/09/15 10:53	1
Tetrachloroethene	<1.0		1.0		ug/L			07/09/15 10:53	1
Toluene	<1.0		1.0		ug/L			07/09/15 10:53	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/09/15 10:53	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/09/15 10:53	1
Trichloroethene	<1.0		1.0		ug/L			07/09/15 10:53	1
Vinyl chloride	<1.0		1.0		ug/L			07/09/15 10:53	1
Xylenes, Total	<1.0		1.0		ug/L			07/09/15 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/09/15 10:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*07/09/15 10:53*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/09/15 10:53*	*1*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/09/15 10:53*	*1*

Lab Sample ID: LCS 680-390778/4
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	40.7		ug/L		81	74 - 128
1,1,2,2-Tetrachloroethane	50.0	44.8		ug/L		90	72 - 128
1,1,2-Trichloroethane	50.0	49.6		ug/L		99	79 - 125
1,1-Dichloroethane	50.0	43.5		ug/L		87	80 - 120
1,1-Dichloroethene	50.0	46.5		ug/L		93	74 - 125
1,2-Dichloroethane	50.0	37.5		ug/L		75	75 - 130
1,2-Dichloropropane	50.0	48.0		ug/L		96	80 - 123
2-Butanone (MEK)	250	210		ug/L		84	75 - 133
2-Hexanone	250	197		ug/L		79	70 - 141
4-Methyl-2-pentanone (MIBK)	250	200		ug/L		80	75 - 135
Acetone	250	198		ug/L		79	60 - 154
Benzene	50.0	49.4		ug/L		99	73 - 131
Bromoform	50.0	50.6		ug/L		101	69 - 135
Bromomethane	50.0	40.2		ug/L		80	20 - 180

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390778/4
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbon disulfide			50.0	45.8		ug/L		92	73 - 127		
Carbon tetrachloride			50.0	44.4		ug/L		89	75 - 130		
Chlorobenzene			50.0	54.8		ug/L		110	80 - 120		
Chlorodibromomethane			50.0	48.2		ug/L		96	71 - 136		
Chloroethane			50.0	41.2		ug/L		82	50 - 151		
Chloroform			50.0	41.4		ug/L		83	79 - 122		
Chloromethane			50.0	42.0		ug/L		84	63 - 126		
cis-1,2-Dichloroethene			50.0	41.9		ug/L		84	80 - 122		
cis-1,3-Dichloropropene			50.0	45.9		ug/L		92	80 - 133		
Dichlorobromomethane			50.0	43.5		ug/L		87	77 - 129		
Ethylbenzene			50.0	51.7		ug/L		103	80 - 120		
Methylene Chloride			50.0	42.0		ug/L		84	76 - 129		
Styrene			50.0	52.0		ug/L		104	80 - 122		
Tetrachloroethene			50.0	51.7		ug/L		103	77 - 123		
Toluene			50.0	50.4		ug/L		101	80 - 122		
trans-1,2-Dichloroethene			50.0	44.6		ug/L		89	78 - 123		
trans-1,3-Dichloropropene			50.0	43.2		ug/L		86	74 - 140		
Trichloroethene			50.0	51.4		ug/L		103	80 - 123		
Vinyl chloride			50.0	44.7		ug/L		89	68 - 132		
Xylenes, Total			100	102		ug/L		102	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*107*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*75*		*70 - 130*
Dibromofluoromethane (Surr)	*84*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-390778/5
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	46.3		ug/L		93	74 - 128	13	20
1,1,2,2-Tetrachloroethane			50.0	51.8		ug/L		104	72 - 128	15	20
1,1,2-Trichloroethane			50.0	56.3		ug/L		113	79 - 125	13	20
1,1-Dichloroethane			50.0	48.1		ug/L		96	80 - 120	10	20
1,1-Dichloroethene			50.0	52.7		ug/L		105	74 - 125	12	20
1,2-Dichloroethane			50.0	42.1		ug/L		84	75 - 130	12	20
1,2-Dichloropropane			50.0	49.4		ug/L		99	80 - 123	3	20
2-Butanone (MEK)			250	237		ug/L		95	75 - 133	12	30
2-Hexanone			250	215		ug/L		86	70 - 141	9	40
4-Methyl-2-pentanone (MIBK)			250	225		ug/L		90	75 - 135	12	30
Acetone			250	215		ug/L		86	60 - 154	8	40
Benzene			50.0	50.5		ug/L		101	73 - 131	2	30
Bromoform			50.0	57.1		ug/L		114	69 - 135	12	20
Bromomethane			50.0	47.1		ug/L		94	20 - 180	16	40
Carbon disulfide			50.0	51.6		ug/L		103	73 - 127	12	20
Carbon tetrachloride			50.0	47.7		ug/L		95	75 - 130	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390778/5
Matrix: Water
Analysis Batch: 390778

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	57.0		ug/L		114	80 - 120	4	20
Chlorodibromomethane			50.0	55.9		ug/L		112	71 - 136	15	20
Chloroethane			50.0	46.2		ug/L		92	50 - 151	12	30
Chloroform			50.0	46.8		ug/L		94	79 - 122	12	20
Chloromethane			50.0	49.2		ug/L		98	63 - 126	16	30
cis-1,2-Dichloroethene			50.0	47.6		ug/L		95	80 - 122	13	20
cis-1,3-Dichloropropene			50.0	52.5		ug/L		105	80 - 133	13	20
Dichlorobromomethane			50.0	46.7		ug/L		93	77 - 129	7	20
Ethylbenzene			50.0	53.0		ug/L		106	80 - 120	2	20
Methylene Chloride			50.0	48.5		ug/L		97	76 - 129	14	20
Styrene			50.0	57.2		ug/L		114	80 - 122	10	20
Tetrachloroethene			50.0	61.9	*	ug/L		124	77 - 123	18	20
Toluene			50.0	58.7		ug/L		117	80 - 122	15	20
trans-1,2-Dichloroethene			50.0	51.3		ug/L		103	78 - 123	14	20
trans-1,3-Dichloropropene			50.0	47.4		ug/L		95	74 - 140	9	20
Trichloroethene			50.0	50.9		ug/L		102	80 - 123	1	20
Vinyl chloride			50.0	51.2		ug/L		102	68 - 132	14	30
Xylenes, Total			100	104		ug/L		104	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*108*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
Dibromofluoromethane (Surr)	*93*		*70 - 130*
4-Bromofluorobenzene (Surr)	*93*		*70 - 130*

Lab Sample ID: MB 680-390983/9
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/10/15 10:48	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/10/15 10:48	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/10/15 10:48	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/10/15 10:48	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/10/15 10:48	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/10/15 10:48	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/10/15 10:48	1
2-Butanone (MEK)	<10		10		ug/L			07/10/15 10:48	1
2-Hexanone	<10		10		ug/L			07/10/15 10:48	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/10/15 10:48	1
Acetone	<10		10		ug/L			07/10/15 10:48	1
Benzene	<1.0		1.0		ug/L			07/10/15 10:48	1
Bromoform	<1.0		1.0		ug/L			07/10/15 10:48	1
Bromomethane	<5.0		5.0		ug/L			07/10/15 10:48	1
Carbon disulfide	<2.0		2.0		ug/L			07/10/15 10:48	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/10/15 10:48	1
Chlorobenzene	<1.0		1.0		ug/L			07/10/15 10:48	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/10/15 10:48	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-390983/9
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			07/10/15 10:48	1
Chloroform	<1.0		1.0		ug/L			07/10/15 10:48	1
Chloromethane	<1.0		1.0		ug/L			07/10/15 10:48	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/10/15 10:48	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/10/15 10:48	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/10/15 10:48	1
Ethylbenzene	<1.0		1.0		ug/L			07/10/15 10:48	1
Methylene Chloride	<5.0		5.0		ug/L			07/10/15 10:48	1
Styrene	<1.0		1.0		ug/L			07/10/15 10:48	1
Tetrachloroethene	<1.0		1.0		ug/L			07/10/15 10:48	1
Toluene	<1.0		1.0		ug/L			07/10/15 10:48	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/10/15 10:48	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/10/15 10:48	1
Trichloroethene	<1.0		1.0		ug/L			07/10/15 10:48	1
Vinyl chloride	<1.0		1.0		ug/L			07/10/15 10:48	1
Xylenes, Total	<1.0		1.0		ug/L			07/10/15 10:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/10/15 10:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/10/15 10:48*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/10/15 10:48*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*07/10/15 10:48*	*1*

Lab Sample ID: LCS 680-390983/4
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	74 - 128
1,1,2,2-Tetrachloroethane	50.0	54.2		ug/L		108	72 - 128
1,1,2-Trichloroethane	50.0	53.0		ug/L		106	79 - 125
1,1-Dichloroethane	50.0	50.0		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	46.9		ug/L		94	74 - 125
1,2-Dichloroethane	50.0	51.7		ug/L		103	75 - 130
1,2-Dichloropropane	50.0	51.7		ug/L		103	80 - 123
2-Butanone (MEK)	250	274		ug/L		110	75 - 133
2-Hexanone	250	265		ug/L		106	70 - 141
4-Methyl-2-pentanone (MIBK)	250	270		ug/L		108	75 - 135
Acetone	250	265		ug/L		106	60 - 154
Benzene	50.0	49.1		ug/L		98	73 - 131
Bromoform	50.0	62.3		ug/L		125	69 - 135
Bromomethane	50.0	61.8		ug/L		124	20 - 180
Carbon disulfide	50.0	45.9		ug/L		92	73 - 127
Carbon tetrachloride	50.0	58.7		ug/L		117	75 - 130
Chlorobenzene	50.0	50.0		ug/L		100	80 - 120
Chlorodibromomethane	50.0	51.7		ug/L		103	71 - 136
Chloroethane	50.0	50.6		ug/L		101	50 - 151
Chloroform	50.0	52.2		ug/L		104	79 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-390983/4
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	47.1		ug/L		94	63 - 126
cis-1,2-Dichloroethene	50.0	45.2		ug/L		90	80 - 122
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	80 - 133
Dichlorobromomethane	50.0	57.4		ug/L		115	77 - 129
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120
Methylene Chloride	50.0	50.5		ug/L		101	76 - 129
Styrene	50.0	51.5		ug/L		103	80 - 122
Tetrachloroethene	50.0	47.4		ug/L		95	77 - 123
Toluene	50.0	49.3		ug/L		99	80 - 122
trans-1,2-Dichloroethene	50.0	48.2		ug/L		96	78 - 123
trans-1,3-Dichloropropene	50.0	56.4		ug/L		113	74 - 140
Trichloroethene	50.0	48.7		ug/L		97	80 - 123
Vinyl chloride	50.0	44.9		ug/L		90	68 - 132
Xylenes, Total	100	99.3		ug/L		99	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-390983/5
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/L		106	72 - 128	3	20
1,1,2-Trichloroethane	50.0	51.4		ug/L		103	79 - 125	3	20
1,1-Dichloroethane	50.0	49.0		ug/L		98	80 - 120	2	20
1,1-Dichloroethene	50.0	47.8		ug/L		96	74 - 125	2	20
1,2-Dichloroethane	50.0	50.2		ug/L		100	75 - 130	3	20
1,2-Dichloropropane	50.0	50.8		ug/L		102	80 - 123	2	20
2-Butanone (MEK)	250	268		ug/L		107	75 - 133	2	30
2-Hexanone	250	259		ug/L		103	70 - 141	3	40
4-Methyl-2-pentanone (MIBK)	250	260		ug/L		104	75 - 135	4	30
Acetone	250	262		ug/L		105	60 - 154	1	40
Benzene	50.0	48.0		ug/L		96	73 - 131	2	30
Bromoform	50.0	61.5		ug/L		123	69 - 135	1	20
Bromomethane	50.0	61.0		ug/L		122	20 - 180	1	40
Carbon disulfide	50.0	45.9		ug/L		92	73 - 127	0	20
Carbon tetrachloride	50.0	59.6		ug/L		119	75 - 130	1	20
Chlorobenzene	50.0	49.9		ug/L		100	80 - 120	0	20
Chlorodibromomethane	50.0	51.0		ug/L		102	71 - 136	1	20
Chloroethane	50.0	49.9		ug/L		100	50 - 151	1	30
Chloroform	50.0	50.5		ug/L		101	79 - 122	3	20
Chloromethane	50.0	46.6		ug/L		93	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	44.7		ug/L		89	80 - 122	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-390983/5
Matrix: Water
Analysis Batch: 390983

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene			50.0	53.9		ug/L		108	80 - 133	3	20
Dichlorobromomethane			50.0	55.3		ug/L		111	77 - 129	4	20
Ethylbenzene			50.0	49.6		ug/L		99	80 - 120	1	20
Methylene Chloride			50.0	49.2		ug/L		98	76 - 129	3	20
Styrene			50.0	51.4		ug/L		103	80 - 122	0	20
Tetrachloroethene			50.0	47.9		ug/L		96	77 - 123	1	20
Toluene			50.0	49.0		ug/L		98	80 - 122	0	20
trans-1,2-Dichloroethene			50.0	48.1		ug/L		96	78 - 123	0	20
trans-1,3-Dichloropropene			50.0	54.7		ug/L		109	74 - 140	3	20
Trichloroethene			50.0	48.9		ug/L		98	80 - 123	0	20
Vinyl chloride			50.0	45.1		ug/L		90	68 - 132	1	30
Xylenes, Total			100	99.8		ug/L		100	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Lab Sample ID: MB 680-391337/11
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/14/15 11:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/14/15 11:27	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/14/15 11:27	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/14/15 11:27	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/14/15 11:27	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/14/15 11:27	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/14/15 11:27	1
2-Butanone (MEK)	<10		10		ug/L			07/14/15 11:27	1
2-Hexanone	<10		10		ug/L			07/14/15 11:27	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/14/15 11:27	1
Acetone	<10		10		ug/L			07/14/15 11:27	1
Benzene	<1.0		1.0		ug/L			07/14/15 11:27	1
Bromoform	<1.0		1.0		ug/L			07/14/15 11:27	1
Bromomethane	<5.0		5.0		ug/L			07/14/15 11:27	1
Carbon disulfide	<2.0		2.0		ug/L			07/14/15 11:27	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/14/15 11:27	1
Chlorobenzene	<1.0		1.0		ug/L			07/14/15 11:27	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/14/15 11:27	1
Chloroethane	<5.0		5.0		ug/L			07/14/15 11:27	1
Chloroform	<1.0		1.0		ug/L			07/14/15 11:27	1
Chloromethane	<1.0		1.0		ug/L			07/14/15 11:27	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/14/15 11:27	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/14/15 11:27	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/14/15 11:27	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-391337/11
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	<1.0		1.0		ug/L			07/14/15 11:27	1
Methylene Chloride	<5.0		5.0		ug/L			07/14/15 11:27	1
Styrene	<1.0		1.0		ug/L			07/14/15 11:27	1
Tetrachloroethene	<1.0		1.0		ug/L			07/14/15 11:27	1
Toluene	<1.0		1.0		ug/L			07/14/15 11:27	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/14/15 11:27	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/14/15 11:27	1
Trichloroethene	<1.0		1.0		ug/L			07/14/15 11:27	1
Vinyl chloride	<1.0		1.0		ug/L			07/14/15 11:27	1
Xylenes, Total	<1.0		1.0		ug/L			07/14/15 11:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*133*	*X*	*70 - 130*		*07/14/15 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*77*		*70 - 130*		*07/14/15 11:27*	*1*
Dibromofluoromethane (Surr)	*80*		*70 - 130*		*07/14/15 11:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*		*07/14/15 11:27*	*1*

Lab Sample ID: LCS 680-391337/7
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.6		ug/L		103	74 - 128
1,1,2,2-Tetrachloroethane	50.0	46.8		ug/L		94	72 - 128
1,1,2-Trichloroethane	50.0	52.7		ug/L		105	79 - 125
1,1-Dichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	51.2		ug/L		102	74 - 125
1,2-Dichloroethane	50.0	49.7		ug/L		99	75 - 130
1,2-Dichloropropane	50.0	50.6		ug/L		101	80 - 123
2-Butanone (MEK)	250	247		ug/L		99	75 - 133
2-Hexanone	250	252		ug/L		101	70 - 141
4-Methyl-2-pentanone (MIBK)	250	237		ug/L		95	75 - 135
Acetone	250	224		ug/L		90	60 - 154
Benzene	50.0	51.8		ug/L		104	73 - 131
Bromoform	50.0	53.2		ug/L		106	69 - 135
Bromomethane	50.0	44.3		ug/L		89	20 - 180
Carbon disulfide	50.0	50.4		ug/L		101	73 - 127
Carbon tetrachloride	50.0	52.9		ug/L		106	75 - 130
Chlorobenzene	50.0	51.7		ug/L		103	80 - 120
Chlorodibromomethane	50.0	59.0		ug/L		118	71 - 136
Chloroethane	50.0	47.0		ug/L		94	50 - 151
Chloroform	50.0	51.7		ug/L		103	79 - 122
Chloromethane	50.0	50.7		ug/L		101	63 - 126
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 122
cis-1,3-Dichloropropene	50.0	48.3		ug/L		97	80 - 133
Dichlorobromomethane	50.0	52.4		ug/L		105	77 - 129
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	49.0		ug/L		98	76 - 129

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-391337/7
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Styrene	50.0	51.8		ug/L		104	80 - 122
Tetrachloroethene	50.0	50.8		ug/L		102	77 - 123
Toluene	50.0	52.3		ug/L		105	80 - 122
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	78 - 123
trans-1,3-Dichloropropene	50.0	46.8		ug/L		94	74 - 140
Trichloroethene	50.0	50.4		ug/L		101	80 - 123
Vinyl chloride	50.0	50.2		ug/L		100	68 - 132
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-391337/31
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	47.8		ug/L		96	74 - 128	8	20
1,1,2,2-Tetrachloroethane	50.0	55.3		ug/L		111	72 - 128	17	20
1,1,2-Trichloroethane	50.0	57.4		ug/L		115	79 - 125	9	20
1,1-Dichloroethane	50.0	51.9		ug/L		104	80 - 120	1	20
1,1-Dichloroethene	50.0	59.4		ug/L		119	74 - 125	15	20
1,2-Dichloroethane	50.0	54.9		ug/L		110	75 - 130	10	20
1,2-Dichloropropane	50.0	53.1		ug/L		106	80 - 123	5	20
2-Butanone (MEK)	250	273		ug/L		109	75 - 133	10	30
2-Hexanone	250	291		ug/L		116	70 - 141	14	40
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	75 - 135	16	30
Acetone	250	309		ug/L		124	60 - 154	32	40
Benzene	50.0	52.2		ug/L		104	73 - 131	1	30
Bromoform	50.0	57.4		ug/L		115	69 - 135	7	20
Bromomethane	50.0	34.1		ug/L		68	20 - 180	26	40
Carbon disulfide	50.0	54.0		ug/L		108	73 - 127	7	20
Carbon tetrachloride	50.0	47.5		ug/L		95	75 - 130	11	20
Chlorobenzene	50.0	55.5		ug/L		111	80 - 120	7	20
Chlorodibromomethane	50.0	61.1		ug/L		122	71 - 136	3	20
Chloroethane	50.0	55.8		ug/L		112	50 - 151	17	30
Chloroform	50.0	53.2		ug/L		106	79 - 122	3	20
Chloromethane	50.0	47.2		ug/L		94	63 - 126	7	30
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 122	0	20
cis-1,3-Dichloropropene	50.0	47.6		ug/L		95	80 - 133	1	20
Dichlorobromomethane	50.0	55.3		ug/L		111	77 - 129	5	20
Ethylbenzene	50.0	50.2		ug/L		100	80 - 120	0	20
Methylene Chloride	50.0	51.0		ug/L		102	76 - 129	4	20
Styrene	50.0	55.6		ug/L		111	80 - 122	7	20
Tetrachloroethene	50.0	47.3		ug/L		95	77 - 123	7	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-391337/31
Matrix: Water
Analysis Batch: 391337

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Toluene			50.0	52.2		ug/L		104	80 - 122	0	20
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	78 - 123	4	20
trans-1,3-Dichloropropene			50.0	44.4		ug/L		89	74 - 140	5	20
Trichloroethene			50.0	50.3		ug/L		101	80 - 123	0	20
Vinyl chloride			50.0	46.2		ug/L		92	68 - 132	8	30
Xylenes, Total			100	102		ug/L		102	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*83*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*106*		*70 - 130*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*

GC/MS VOA

Analysis Batch: 390579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114236-2	MW-11C	Total/NA	Water	8260B	
680-114236-3	MW-8C	Total/NA	Water	8260B	
680-114236-4	MW-14A	Total/NA	Water	8260B	
680-114236-5	MW-24C	Total/NA	Water	8260B	
680-114236-6	MW-20C	Total/NA	Water	8260B	
680-114236-7	MW-12A	Total/NA	Water	8260B	
680-114236-8	MW-10C	Total/NA	Water	8260B	
680-114236-9	MW-10B	Total/NA	Water	8260B	
680-114236-10	MW-3A	Total/NA	Water	8260B	
680-114236-11	DUP-1	Total/NA	Water	8260B	
680-114236-12	TB	Total/NA	Water	8260B	
LCS 680-390579/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390579/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390579/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 390774

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114236-13	MW-5A	Total/NA	Water	8260B	
680-114236-14	MW-7C	Total/NA	Water	8260B	
680-114236-15	MW-3B	Total/NA	Water	8260B	
680-114236-16	MW-7B	Total/NA	Water	8260B	
LCS 680-390774/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390774/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390774/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 390778

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114236-18	MW-4B	Total/NA	Water	8260B	
680-114236-19	MW-9C	Total/NA	Water	8260B	
680-114236-20	MW-9B	Total/NA	Water	8260B	
680-114236-21	MW-4A	Total/NA	Water	8260B	
680-114236-22	MW-18B	Total/NA	Water	8260B	
680-114236-23	MW-18A	Total/NA	Water	8260B	
LCS 680-390778/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390778/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390778/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 390983

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114236-17	MW-19A	Total/NA	Water	8260B	
LCS 680-390983/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-390983/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-390983/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 391337

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114236-1	MW-11B	Total/NA	Water	8260B	
680-114236-17	MW-19A	Total/NA	Water	8260B	
LCS 680-391337/7	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-391337/31	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-391337/11	Method Blank	Total/NA	Water	8260B	

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-11B
Date Collected: 07/02/15 14:40
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	391337	07/14/15 18:20	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-11C
Date Collected: 07/02/15 16:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 12:08	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-8C
Date Collected: 07/02/15 11:45
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 12:29	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-14A
Date Collected: 07/02/15 13:42
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 12:51	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-24C
Date Collected: 07/02/15 14:50
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 13:12	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-20C
Date Collected: 07/02/15 15:57
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 13:34	MMT	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-12A
Date Collected: 07/02/15 17:07
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 13:55	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-10C
Date Collected: 07/02/15 17:20
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 14:17	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-10B
Date Collected: 07/02/15 18:20
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 14:38	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: MW-3A
Date Collected: 07/02/15 18:08
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 15:00	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: DUP-1
Date Collected: 07/02/15 00:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-11
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 15:21	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: TB
Date Collected: 06/25/15 00:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-12
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390579	07/08/15 11:25	MMT	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-5A
Date Collected: 07/01/15 15:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-13
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390774	07/09/15 16:35	MMT	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-7C
Date Collected: 07/01/15 15:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-14
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390774	07/09/15 16:56	MMT	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-3B
Date Collected: 07/01/15 13:15
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-15
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390774	07/09/15 17:17	MMT	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-7B
Date Collected: 07/01/15 16:05
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-16
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390774	07/09/15 17:38	MMT	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-19A
Date Collected: 07/01/15 16:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-17
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	390983	07/10/15 16:10	MMT	TAL SAV
	Instrument ID: CMSP2									
Total/NA	Analysis	8260B		1	5 mL	5 mL	391337	07/14/15 18:42	MMT	TAL SAV
	Instrument ID: CMSS									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Client Sample ID: MW-4B
Date Collected: 07/01/15 18:00
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-18
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 11:16	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-9C
Date Collected: 07/01/15 17:42
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-19
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 11:39	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-9B
Date Collected: 07/02/15 10:10
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-20
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 12:01	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-4A
Date Collected: 07/02/15 10:30
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 12:24	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-18B
Date Collected: 07/02/15 11:45
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 12:47	MMT	TAL SAV
	Instrument ID: CMSS									

Client Sample ID: MW-18A
Date Collected: 07/02/15 12:50
Date Received: 07/07/15 09:27

Lab Sample ID: 680-114236-23
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	390778	07/09/15 13:09	MMT	TAL SAV
	Instrument ID: CMSS									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Laboratory References:

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 91986

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

◯ TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

◯ Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Alternan		
TAL (LAB) PROJECT MANAGER	P.O NUMBER	CONTRACT NO.
Jeff Lanier		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Darin Hintz	678-346-8804	
CLIENT NAME	CLIENT E-MAIL	
Antea	darin.hintz@anteagroup.com	
CLIENT ADDRESS		
darin.hintz@anteagroup.com		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 2 OF 2

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ..)	REQUIRED ANALYSIS: 8260C	REQUIRED ANALYSIS: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7-2-15	1440	MW-11B	G							3	
7-2-15	1600	MW-11C	G							3	
7-2-15	1145	MW-8C	G							3	
7-2-15	1342	MW-14A	G							3	
7-2-15	1450	MW-24C	G							3	
7-2-15	1557	MW-20C	G							3	
7-2-15	1707	MW-12A	G							3	
7-2-15	1720	MW-10C	G							3	
7-2-15	1820	MW-10B	G							3	
7-2-15	1808	MW-3A	G							3	
7-2-15	0000	Dup-1	G							3	

680-114236 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7-6-15	0500						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO	SAVANNAH LOG NO.	LABORATORY REMARKS
	7/7/15	9:27	YES ◯ NO ◯			3.2 3.7

TAL8240-680 (1008)

Page 54 of 57

7/15/2015

Serial Number 91985

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Ashland Alterman		
TAL (LAB) PROJECT MANAGER	PO NUMBER	CONTRACT NO
Jerry Lanier		
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Darin Hintz	678-346-8809	
CLIENT NAME	CLIENT E-MAIL	
Antea Group	darin.hintz@anteagroup.com	
CLIENT ADDRESS		
4940 Peachtree ind blvd Norcross GA 30071		
COMPANY CONTRACTING THIS WORK (if applicable)		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	MATRIX: COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260C	REQUIRED ANALYSIS: HCL	NUMBER OF CONTAINERS SUBMITTED	REMARKS
6.25.15	0000	TB	G	/						3	
7.1.15	1500	MW-5A	G	/						3	
7.1.15	1500	MW-7C	G	/						3	
7.1.15	1315	MW-3B	G	/						3	
7.1.15	1605	MW-7B	G	/						3	
7.1.15	1630	MW-19A	G	/						3	
7.1.15	1800	MW-4B	G	/						3	
7.1.15	1742	MW-9C	G	/						3	
7.2.15	1010	MW-9B	G	/						3	
7.2.15	1030	MW-4A	G	/						3	
7.2.15	1145	MW-18B	G	/						3	
7.2.15	1250	MW-18A	G	/						3	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7.6.15	0500						
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	7/7/15	9:27	YES ○ NO ○			3.2 3.7

680-114234

TAL8240-680 (1008)

Page 55 of 57

7/15/2015

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114236-1

Login Number: 114236
List Number: 1
Creator: White, Menica R

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114236-1

Laboratory: TestAmerica Savannah

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-15 *
Arkansas DEQ	State Program	6	88-0692	01-31-16
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-15
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-16
Guam	State Program	9	14-004r	04-16-16
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-15
Indiana	State Program	5	N/A	06-30-15 *
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-15
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-15
Louisiana	NELAP	6	30690	06-30-15 *
Louisiana (DW)	NELAP	6	LA150014	12-31-15
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-15
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	06-30-15 *
Mississippi	State Program	4	N/A	06-30-15 *
Montana	State Program	8	CERT0081	12-31-15
Nebraska	State Program	7	TestAmerica-Savannah	06-30-15 *
New Jersey	NELAP	2	GA769	09-30-15
New Mexico	State Program	6	N/A	06-30-15 *
New York	NELAP	2	10842	03-31-16
North Carolina (DW)	State Program	4	13701	07-31-15 *
North Carolina (WW/SW)	State Program	4	269	12-31-15
Oklahoma	State Program	6	9984	08-31-15
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-15
South Carolina	State Program	4	98001	06-30-15 *
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-15
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-15
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-15
Wyoming	State Program	8	8TMS-L	06-30-15 *

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-114574-1
Client Project/Site: Ashland Alterman

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Jerry Lanier

Authorized for release by:
7/28/2015 6:19:19 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 6
Method Summary 7
Definitions 8
Detection Summary 9
Client Sample Results 14
Surrogate Summary 40
QC Sample Results 42
QC Association 59
Chronicle 63
Chain of Custody 71
Receipt Checklists 73
Certification Summary 75

Job ID: 680-114574-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman

Report Number: 680-114574-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 07/16/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.3 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples MW-5C (680-114574-1), MW-8A (680-114574-2), MW-13C (680-114574-3), MW-10A (680-114574-4), MW-13B (680-114574-5), MW-17A (680-114574-6), MW-8B (680-114574-7), MW-9A (680-114574-8), MW-19C (680-114574-9), MW-19B (680-114574-10), MW-19D (680-114574-11), Dup-1 (680-114574-12), MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-13A (680-114574-16), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19), MW-16C (680-114574-20), Dup-2 (680-114574-21) and Trip Blank (680-114574-22) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/23/2015, 07/26/2015, 07/27/2015 and 07/28/2015.

Vinyl chloride exceeded the RPD limit for LCSD 680-393225/5. Methylene Chloride exceeded the RPD limit for LCSD 680-393418/5. Refer to the QC report for details.

Samples MW-10A (680-114574-4)[2X], MW-13B (680-114574-5)[2X], MW-17A (680-114574-6)[2X], MW-8B (680-114574-7)[2X], MW-9A (680-114574-8)[5X], MW-19B (680-114574-10)[5X], Dup-1 (680-114574-12)[5X], MW-15A (680-114574-13)[2X], MW-13A (680-114574-16)[20X], MW-5B (680-114574-17)[5X], MW-16A (680-114574-18)[5X], MW-16B (680-114574-19)[10X] and MW-16C (680-114574-20)[10X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Samples MW-17A (680-114574-6) and MW-8B (680-114574-7) were diluted based on the color of the samples.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate/sample duplicate (MS/MSD/DUP) associated with analytical batch 680-392898, and 680-393238.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)
Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 07/22/2015 and analyzed on 07/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)
Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for metals (ICPMS) in accordance with EPA

Job ID: 680-114574-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

SW-846 Method 6020A. The samples were prepared on 07/22/2015 and analyzed on 07/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (28 DAY)

Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 07/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)

Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 07/16/2015 and 07/17/2015.

Sample MW-15B (680-114574-14) was originally analyzed within hold but required a dilution which was performed outside of hold time. Both sets of data have been reported.

The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with analytical batch 680-391942 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of Nitrate in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

The presence of the '4' qualifier indicates analytes where the concentration in the unspiked sample exceeded four times the spiking amount.

Refer to the QC report for details.

Samples MW-15A (680-114574-13)[2X], MW-15B (680-114574-14)[2X], MW-15B (680-114574-14)[4X], MW-16B (680-114574-19)[2X] and MW-16C (680-114574-20)[2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FERROUS IRON

Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for ferrous iron in accordance with SM 3500-Fe-D. The samples were analyzed on 07/16/2015.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 07/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Samples MW-15A (680-114574-13), MW-15B (680-114574-14), MW-15C (680-114574-15), MW-5B (680-114574-17), MW-16A (680-114574-18), MW-16B (680-114574-19) and MW-16C (680-114574-20) were analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/28/2015.

Job ID: 680-114574-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-114574-1	MW-5C	Water	07/14/15 09:16	07/16/15 09:46
680-114574-2	MW-8A	Water	07/14/15 09:16	07/16/15 09:46
680-114574-3	MW-13C	Water	07/14/15 10:32	07/16/15 09:46
680-114574-4	MW-10A	Water	07/14/15 10:34	07/16/15 09:46
680-114574-5	MW-13B	Water	07/14/15 11:25	07/16/15 09:46
680-114574-6	MW-17A	Water	07/14/15 11:44	07/16/15 09:46
680-114574-7	MW-8B	Water	07/14/15 12:33	07/16/15 09:46
680-114574-8	MW-9A	Water	07/14/15 13:21	07/16/15 09:46
680-114574-9	MW-19C	Water	07/14/15 14:22	07/16/15 09:46
680-114574-10	MW-19B	Water	07/14/15 15:15	07/16/15 09:46
680-114574-11	MW-19D	Water	07/14/15 16:09	07/16/15 09:46
680-114574-12	Dup-1	Water	07/14/15 00:00	07/16/15 09:46
680-114574-13	MW-15A	Water	07/15/15 12:13	07/16/15 09:46
680-114574-14	MW-15B	Water	07/15/15 10:39	07/16/15 09:46
680-114574-15	MW-15C	Water	07/15/15 08:54	07/16/15 09:46
680-114574-16	MW-13A	Water	07/15/15 14:09	07/16/15 09:46
680-114574-17	MW-5B	Water	07/15/15 12:19	07/16/15 09:46
680-114574-18	MW-16A	Water	07/15/15 10:22	07/16/15 09:46
680-114574-19	MW-16B	Water	07/15/15 08:54	07/16/15 09:46
680-114574-20	MW-16C	Water	07/15/15 14:33	07/16/15 09:46
680-114574-21	Dup-2	Water	07/15/15 00:00	07/16/15 09:46
680-114574-22	Trip Blank	Water	07/14/15 00:00	07/16/15 09:46

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL SAV
9060A	Organic Carbon, Total (TOC)	SW846	TAL PEN
SM 3500 FE D	Iron, Ferrous	SM	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	RPD of the LCS and LCSD exceeds the control limits

HPLC/IC

Qualifier	Qualifier Description
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-5C — Lab Sample ID: 680-114574-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	2.9		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-8A — Lab Sample ID: 680-114574-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.4		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	96		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-13C — Lab Sample ID: 680-114574-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.1		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	7.5		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-10A — Lab Sample ID: 680-114574-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	4.9		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	21		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	37		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	220		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-13B — Lab Sample ID: 680-114574-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.4		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	130		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	1.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	290		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-17A — Lab Sample ID: 680-114574-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	98		20		ug/L	2		8260B	Total/NA
Bromoform	2.1		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	3.1		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-8B — Lab Sample ID: 680-114574-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	38		20		ug/L	2		8260B	Total/NA
Tetrachloroethene	7.7		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-9A — Lab Sample ID: 680-114574-8

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-9A (Continued) — Lab Sample ID: 680-114574-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		10		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	7.9		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	7.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	180		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	310		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-19C — Lab Sample ID: 680-114574-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	32		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	200		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	18		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19B — Lab Sample ID: 680-114574-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.0		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	34		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	370		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-19D — Lab Sample ID: 680-114574-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	12		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Dup-1 — Lab Sample ID: 680-114574-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	48		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.2		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	33		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	360		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-15A — Lab Sample ID: 680-114574-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	19		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	320		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	87		2.0		ug/L	2		8260B	Total/NA
Nitrate as N	1.9		0.10		mg/L	2		300.0	Total/NA
Chloride	16		0.50		mg/L	1		300.0	Total/NA
Manganese	190		5.0		ug/L	1		6020A	Total Recoverable
Manganese	190		5.0		ug/L	1		6020A	Dissolved

Client Sample ID: MW-15B — Lab Sample ID: 680-114574-14

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-15B (Continued) — Lab Sample ID: 680-114574-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	72		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.1		1.0		ug/L	1		8260B	Total/NA
Nitrate as N	6.9	E	0.10		mg/L	2		300.0	Total/NA
Nitrate as N	6.4	H	0.20		mg/L	4		300.0	Total/NA
Chloride	14		0.50		mg/L	1		300.0	Total/NA
Iron	3600		100		ug/L	1		6020A	Total Recoverable
Manganese	110		5.0		ug/L	1		6020A	Total Recoverable
Iron	520		100		ug/L	1		6020A	Dissolved
Manganese	58		5.0		ug/L	1		6020A	Dissolved

Client Sample ID: MW-15C — Lab Sample ID: 680-114574-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	30		2.0		ug/L	1		8260B	Total/NA
Chloroform	22		1.0		ug/L	1		8260B	Total/NA
Dichlorobromomethane	1.6		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	10		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.9		1.0		ug/L	1		8260B	Total/NA
Sulfate	20		1.0		mg/L	1		300.0	Total/NA
Chloride	9.4		0.50		mg/L	1		300.0	Total/NA
Total Organic Carbon	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 1	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.4		1.0		mg/L	1		9060A	Total/NA
TOC Result 3	1.5		1.0		mg/L	1		9060A	Total/NA
TOC Result 4	1.4		1.0		mg/L	1		9060A	Total/NA

Client Sample ID: MW-13A — Lab Sample ID: 680-114574-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethene	3.4		1.0		ug/L	1		8260B	Total/NA
Acetone	25		10		ug/L	1		8260B	Total/NA
Benzene	17		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	13		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	180		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	2000		20		ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	750		20		ug/L	20		8260B	Total/NA
Trichloroethene - DL	730		20		ug/L	20		8260B	Total/NA

Client Sample ID: MW-5B — Lab Sample ID: 680-114574-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	4.6		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	2.3		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene - DL	570		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene - DL	340		5.0		ug/L	5		8260B	Total/NA
Trichloroethene - DL	200		5.0		ug/L	5		8260B	Total/NA
Nitrate as N	0.087		0.050		mg/L	1		300.0	Total/NA
Chloride	8.8		0.50		mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5B (Continued) — Lab Sample ID: 680-114574-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Manganese	81		5.0		ug/L	1		6020A	Total Recoverable
Manganese	79		5.0		ug/L	1		6020A	Dissolved

Client Sample ID: MW-16A — Lab Sample ID: 680-114574-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	93		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.8		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	49		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	400		5.0		ug/L	5		8260B	Total/NA
Nitrate as N	0.83		0.050		mg/L	1		300.0	Total/NA
Chloride	1.7		0.50		mg/L	1		300.0	Total/NA
Iron	230		100		ug/L	1		6020A	Total Recoverable
Manganese	19		5.0		ug/L	1		6020A	Total Recoverable
Manganese	14		5.0		ug/L	1		6020A	Dissolved

Client Sample ID: MW-16B — Lab Sample ID: 680-114574-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	190		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	17		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	92		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	980		10		ug/L	10		8260B	Total/NA
Nitrate as N	3.1		0.10		mg/L	2		300.0	Total/NA
Chloride	4.1		0.50		mg/L	1		300.0	Total/NA
Manganese	7.0		5.0		ug/L	1		6020A	Total Recoverable
Manganese	10		5.0		ug/L	1		6020A	Dissolved

Client Sample ID: MW-16C — Lab Sample ID: 680-114574-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	110		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	72		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	820		10		ug/L	10		8260B	Total/NA
Nitrate as N	2.8		0.10		mg/L	2		300.0	Total/NA
Sulfate	2.1		1.0		mg/L	1		300.0	Total/NA
Chloride	4.6		0.50		mg/L	1		300.0	Total/NA
Manganese	6.2		5.0		ug/L	1		6020A	Total Recoverable

Client Sample ID: Dup-2 — Lab Sample ID: 680-114574-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	35		2.0		ug/L	1		8260B	Total/NA
Chloroform	23		1.0		ug/L	1		8260B	Total/NA
Dichlorobromomethane	1.5		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	9.9		1.0		ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: Dup-2 (Continued) — Lab Sample ID: 680-114574-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-114574-22

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-5C

Date Collected: 07/14/15 09:16
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-1

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 14:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 14:02	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 14:02	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 14:02	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 14:02	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 14:02	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 14:02	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 14:02	1
2-Hexanone	<10		10		ug/L			07/23/15 14:02	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 14:02	1
Acetone	<10		10		ug/L			07/23/15 14:02	1
Benzene	<1.0		1.0		ug/L			07/23/15 14:02	1
Bromoform	<1.0		1.0		ug/L			07/23/15 14:02	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 14:02	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 14:02	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 14:02	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 14:02	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 14:02	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 14:02	1
Chloroform	<1.0		1.0		ug/L			07/23/15 14:02	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 14:02	1
cis-1,2-Dichloroethene	**1.6**		1.0		ug/L			07/23/15 14:02	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 14:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 14:02	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 14:02	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 14:02	1
Styrene	<1.0		1.0		ug/L			07/23/15 14:02	1
Tetrachloroethene	**2.9**		1.0		ug/L			07/23/15 14:02	1
Toluene	<1.0		1.0		ug/L			07/23/15 14:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 14:02	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 14:02	1
Trichloroethene	**2.0**		1.0		ug/L			07/23/15 14:02	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 14:02	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 14:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 14:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/23/15 14:02*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/23/15 14:02*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*07/23/15 14:02*	*1*

Client Sample ID: MW-8A

Date Collected: 07/14/15 09:16
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 14:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 14:24	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 14:24	1

Client Sample ID: MW-8A

Date Collected: 07/14/15 09:16
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-2
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 14:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 14:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 14:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 14:24	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 14:24	1
2-Hexanone	<10		10		ug/L			07/23/15 14:24	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 14:24	1
Acetone	<10		10		ug/L			07/23/15 14:24	1
Benzene	<1.0		1.0		ug/L			07/23/15 14:24	1
Bromoform	<1.0		1.0		ug/L			07/23/15 14:24	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 14:24	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 14:24	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 14:24	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 14:24	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 14:24	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 14:24	1
Chloroform	**4.4**		1.0		ug/L			07/23/15 14:24	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 14:24	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 14:24	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 14:24	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 14:24	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 14:24	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 14:24	1
Styrene	<1.0		1.0		ug/L			07/23/15 14:24	1
Tetrachloroethene	**96**		1.0		ug/L			07/23/15 14:24	1
Toluene	<1.0		1.0		ug/L			07/23/15 14:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 14:24	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 14:24	1
Trichloroethene	<1.0		1.0		ug/L			07/23/15 14:24	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 14:24	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/23/15 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*07/23/15 14:24*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/23/15 14:24*	*1*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*07/23/15 14:24*	*1*

Client Sample ID: MW-13C

Date Collected: 07/14/15 10:32
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 15:25	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 15:25	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 15:25	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 15:25	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 15:25	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 15:25	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-13C

Lab Sample ID: 680-114574-3

Date Collected: 07/14/15 10:32

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 15:25	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 15:25	1
2-Hexanone	<10		10		ug/L			07/23/15 15:25	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 15:25	1
Acetone	<10		10		ug/L			07/23/15 15:25	1
Benzene	<1.0		1.0		ug/L			07/23/15 15:25	1
Bromoform	<1.0		1.0		ug/L			07/23/15 15:25	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 15:25	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 15:25	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 15:25	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 15:25	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 15:25	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 15:25	1
Chloroform	<1.0		1.0		ug/L			07/23/15 15:25	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 15:25	1
cis-1,2-Dichloroethene	**3.1**		1.0		ug/L			07/23/15 15:25	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 15:25	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 15:25	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 15:25	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 15:25	1
Styrene	<1.0		1.0		ug/L			07/23/15 15:25	1
Tetrachloroethene	**7.5**		1.0		ug/L			07/23/15 15:25	1
Toluene	<1.0		1.0		ug/L			07/23/15 15:25	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 15:25	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 15:25	1
Trichloroethene	**1.2**		1.0		ug/L			07/23/15 15:25	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 15:25	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 15:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 15:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/23/15 15:25*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/23/15 15:25*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*07/23/15 15:25*	*1*

Client Sample ID: MW-10A

Lab Sample ID: 680-114574-4

Date Collected: 07/14/15 10:34

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 15:47	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 15:47	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 15:47	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 15:47	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 15:47	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 15:47	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 15:47	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 15:47	1
2-Hexanone	<10		10		ug/L			07/23/15 15:47	1

Client Sample ID: MW-10A

Date Collected: 07/14/15 10:34
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-4

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 15:47	1
Acetone	<10		10		ug/L			07/23/15 15:47	1
Benzene	<1.0		1.0		ug/L			07/23/15 15:47	1
Bromoform	<1.0		1.0		ug/L			07/23/15 15:47	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 15:47	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 15:47	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 15:47	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 15:47	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 15:47	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 15:47	1
Chloroform	**4.9**		1.0		ug/L			07/23/15 15:47	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 15:47	1
cis-1,2-Dichloroethene	**21**		1.0		ug/L			07/23/15 15:47	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 15:47	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 15:47	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 15:47	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 15:47	1
Styrene	<1.0		1.0		ug/L			07/23/15 15:47	1
Toluene	<1.0		1.0		ug/L			07/23/15 15:47	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 15:47	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 15:47	1
Trichloroethene	**37**		1.0		ug/L			07/23/15 15:47	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 15:47	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 15:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/23/15 15:47*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*07/23/15 15:47*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*07/23/15 15:47*	*1*
4-Bromofluorobenzene (Surr)	*124*		*70 - 130*		*07/23/15 15:47*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**220**		2.0		ug/L			07/26/15 20:03	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*07/26/15 20:03*	*2*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*07/26/15 20:03*	*2*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*07/26/15 20:03*	*2*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/26/15 20:03*	*2*

Client Sample ID: MW-13B

Date Collected: 07/14/15 11:25
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-5

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 16:08	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 16:08	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 16:08	1

Client Sample ID: MW-13B
Date Collected: 07/14/15 11:25
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-5
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 16:08	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 16:08	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 16:08	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 16:08	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 16:08	1
2-Hexanone	<10		10		ug/L			07/23/15 16:08	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 16:08	1
Acetone	<10		10		ug/L			07/23/15 16:08	1
Benzene	<1.0		1.0		ug/L			07/23/15 16:08	1
Bromoform	<1.0		1.0		ug/L			07/23/15 16:08	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 16:08	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 16:08	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 16:08	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 16:08	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 16:08	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 16:08	1
Chloroform	<1.0		1.0		ug/L			07/23/15 16:08	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 16:08	1
cis-1,2-Dichloroethene	**130**		1.0		ug/L			07/23/15 16:08	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 16:08	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 16:08	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 16:08	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 16:08	1
Styrene	<1.0		1.0		ug/L			07/23/15 16:08	1
Toluene	<1.0		1.0		ug/L			07/23/15 16:08	1
trans-1,2-Dichloroethene	**1.4**		1.0		ug/L			07/23/15 16:08	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 16:08	1
Trichloroethene	**130**		1.0		ug/L			07/23/15 16:08	1
Vinyl chloride	**1.9**		1.0		ug/L			07/23/15 16:08	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/23/15 16:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 16:08*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*07/23/15 16:08*	*1*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*07/23/15 16:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**290**		2.0		ug/L			07/26/15 20:24	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/26/15 20:24*	*2*
1,2-Dichloroethane-d4 (Surr)	*120*		*70 - 130*		*07/26/15 20:24*	*2*
Dibromofluoromethane (Surr)	*114*		*70 - 130*		*07/26/15 20:24*	*2*
4-Bromofluorobenzene (Surr)	*96*		*70 - 130*		*07/26/15 20:24*	*2*

Client Sample ID: MW-17A

Date Collected: 07/14/15 11:44
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-6

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/23/15 16:30	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/23/15 16:30	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			07/23/15 16:30	2
1,1-Dichloroethane	<2.0		2.0		ug/L			07/23/15 16:30	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:30	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/23/15 16:30	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/23/15 16:30	2
2-Butanone (MEK)	<20		20		ug/L			07/23/15 16:30	2
2-Hexanone	<20		20		ug/L			07/23/15 16:30	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			07/23/15 16:30	2
Acetone	**98**		20		ug/L			07/23/15 16:30	2
Benzene	<2.0		2.0		ug/L			07/23/15 16:30	2
Bromoform	**2.1**		2.0		ug/L			07/23/15 16:30	2
Bromomethane	<10		10		ug/L			07/23/15 16:30	2
Carbon disulfide	<4.0		4.0		ug/L			07/23/15 16:30	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/23/15 16:30	2
Chlorobenzene	<2.0		2.0		ug/L			07/23/15 16:30	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/23/15 16:30	2
Chloroethane	<10		10		ug/L			07/23/15 16:30	2
Chloroform	<2.0		2.0		ug/L			07/23/15 16:30	2
Chloromethane	<2.0		2.0		ug/L			07/23/15 16:30	2
cis-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:30	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 16:30	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/23/15 16:30	2
Ethylbenzene	<2.0		2.0		ug/L			07/23/15 16:30	2
Methylene Chloride	<10		10		ug/L			07/23/15 16:30	2
Styrene	<2.0		2.0		ug/L			07/23/15 16:30	2
Tetrachloroethene	**3.1**		2.0		ug/L			07/23/15 16:30	2
Toluene	<2.0		2.0		ug/L			07/23/15 16:30	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:30	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 16:30	2
Trichloroethene	<2.0		2.0		ug/L			07/23/15 16:30	2
Vinyl chloride	<2.0		2.0		ug/L			07/23/15 16:30	2
Xylenes, Total	<2.0		2.0		ug/L			07/23/15 16:30	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*89*		*70 - 130*		*07/23/15 16:30*	*2*
1,2-Dichloroethane-d4 (Surr)	*125*		*70 - 130*		*07/23/15 16:30*	*2*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/23/15 16:30*	*2*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/23/15 16:30*	*2*

Client Sample ID: MW-8B

Date Collected: 07/14/15 12:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-7

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/23/15 16:52	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/23/15 16:52	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			07/23/15 16:52	2

Client Sample ID: MW-8B

Date Collected: 07/14/15 12:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<2.0		2.0		ug/L			07/23/15 16:52	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:52	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/23/15 16:52	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/23/15 16:52	2
2-Butanone (MEK)	<20		20		ug/L			07/23/15 16:52	2
2-Hexanone	<20		20		ug/L			07/23/15 16:52	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			07/23/15 16:52	2
Acetone	**38**		20		ug/L			07/23/15 16:52	2
Benzene	<2.0		2.0		ug/L			07/23/15 16:52	2
Bromoform	<2.0		2.0		ug/L			07/23/15 16:52	2
Bromomethane	<10		10		ug/L			07/23/15 16:52	2
Carbon disulfide	<4.0		4.0		ug/L			07/23/15 16:52	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/23/15 16:52	2
Chlorobenzene	<2.0		2.0		ug/L			07/23/15 16:52	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/23/15 16:52	2
Chloroethane	<10		10		ug/L			07/23/15 16:52	2
Chloroform	<2.0		2.0		ug/L			07/23/15 16:52	2
Chloromethane	<2.0		2.0		ug/L			07/23/15 16:52	2
cis-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:52	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 16:52	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/23/15 16:52	2
Ethylbenzene	<2.0		2.0		ug/L			07/23/15 16:52	2
Methylene Chloride	<10		10		ug/L			07/23/15 16:52	2
Styrene	<2.0		2.0		ug/L			07/23/15 16:52	2
Tetrachloroethene	**7.7**		2.0		ug/L			07/23/15 16:52	2
Toluene	<2.0		2.0		ug/L			07/23/15 16:52	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 16:52	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 16:52	2
Trichloroethene	<2.0		2.0		ug/L			07/23/15 16:52	2
Vinyl chloride	<2.0		2.0		ug/L			07/23/15 16:52	2
Xylenes, Total	<2.0		2.0		ug/L			07/23/15 16:52	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*91*		*70 - 130*		*07/23/15 16:52*	*2*
1,2-Dichloroethane-d4 (Surr)	*130*		*70 - 130*		*07/23/15 16:52*	*2*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/23/15 16:52*	*2*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*07/23/15 16:52*	*2*

Client Sample ID: MW-9A

Date Collected: 07/14/15 13:21
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 17:14	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:14	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:14	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 17:14	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:14	1

Client Sample ID: MW-9A
Date Collected: 07/14/15 13:21
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 17:14	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 17:14	1
2-Hexanone	<10		10		ug/L			07/23/15 17:14	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 17:14	1
Acetone	**12**		10		ug/L			07/23/15 17:14	1
Benzene	<1.0		1.0		ug/L			07/23/15 17:14	1
Bromoform	<1.0		1.0		ug/L			07/23/15 17:14	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 17:14	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 17:14	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 17:14	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 17:14	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 17:14	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 17:14	1
Chloroform	<1.0		1.0		ug/L			07/23/15 17:14	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 17:14	1
cis-1,2-Dichloroethene	**7.9**		1.0		ug/L			07/23/15 17:14	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:14	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 17:14	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 17:14	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 17:14	1
Styrene	<1.0		1.0		ug/L			07/23/15 17:14	1
Toluene	<1.0		1.0		ug/L			07/23/15 17:14	1
trans-1,2-Dichloroethene	**7.3**		1.0		ug/L			07/23/15 17:14	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:14	1
Trichloroethene	**180**		1.0		ug/L			07/23/15 17:14	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 17:14	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 17:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/23/15 17:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 17:14*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*07/23/15 17:14*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*07/23/15 17:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**310**		5.0		ug/L			07/26/15 20:45	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/26/15 20:45*	*5*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/26/15 20:45*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/26/15 20:45*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/26/15 20:45*	*5*

Client Sample ID: MW-19C

Date Collected: 07/14/15 14:22
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:36	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 17:36	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:36	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:36	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 17:36	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:36	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 17:36	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 17:36	1
2-Hexanone	<10		10		ug/L			07/23/15 17:36	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 17:36	1
Acetone	<10		10		ug/L			07/23/15 17:36	1
Benzene	<1.0		1.0		ug/L			07/23/15 17:36	1
Bromoform	<1.0		1.0		ug/L			07/23/15 17:36	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 17:36	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 17:36	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 17:36	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 17:36	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 17:36	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 17:36	1
Chloroform	<1.0		1.0		ug/L			07/23/15 17:36	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 17:36	1
cis-1,2-Dichloroethene	**32**		1.0		ug/L			07/23/15 17:36	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:36	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 17:36	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 17:36	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 17:36	1
Styrene	<1.0		1.0		ug/L			07/23/15 17:36	1
Tetrachloroethene	**200**		1.0		ug/L			07/23/15 17:36	1
Toluene	<1.0		1.0		ug/L			07/23/15 17:36	1
trans-1,2-Dichloroethene	**1.2**		1.0		ug/L			07/23/15 17:36	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:36	1
Trichloroethene	**18**		1.0		ug/L			07/23/15 17:36	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 17:36	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 17:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 17:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*70 - 130*		*07/23/15 17:36*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/23/15 17:36*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*07/23/15 17:36*	*1*

Client Sample ID: MW-19B

Date Collected: 07/14/15 15:15
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:57	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 17:57	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 17:57	1

Client Sample ID: MW-19B
Date Collected: 07/14/15 15:15
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:57	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 17:57	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 17:57	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 17:57	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 17:57	1
2-Hexanone	<10		10		ug/L			07/23/15 17:57	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 17:57	1
Acetone	<10		10		ug/L			07/23/15 17:57	1
Benzene	<1.0		1.0		ug/L			07/23/15 17:57	1
Bromoform	<1.0		1.0		ug/L			07/23/15 17:57	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 17:57	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 17:57	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 17:57	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 17:57	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 17:57	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 17:57	1
Chloroform	<1.0		1.0		ug/L			07/23/15 17:57	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 17:57	1
cis-1,2-Dichloroethene	**47**		1.0		ug/L			07/23/15 17:57	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:57	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 17:57	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 17:57	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 17:57	1
Styrene	<1.0		1.0		ug/L			07/23/15 17:57	1
Toluene	<1.0		1.0		ug/L			07/23/15 17:57	1
trans-1,2-Dichloroethene	**1.0**		1.0		ug/L			07/23/15 17:57	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 17:57	1
Trichloroethene	**34**		1.0		ug/L			07/23/15 17:57	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 17:57	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 17:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/23/15 17:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/23/15 17:57*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/23/15 17:57*	*1*
4-Bromofluorobenzene (Surr)	*119*		*70 - 130*		*07/23/15 17:57*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**370**		5.0		ug/L			07/26/15 21:06	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/26/15 21:06*	*5*
1,2-Dichloroethane-d4 (Surr)	*110*		*70 - 130*		*07/26/15 21:06*	*5*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*07/26/15 21:06*	*5*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*07/26/15 21:06*	*5*

Client Sample ID: MW-19D

Date Collected: 07/14/15 16:09
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 18:19	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 18:19	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 18:19	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 18:19	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 18:19	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 18:19	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 18:19	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 18:19	1
2-Hexanone	<10		10		ug/L			07/23/15 18:19	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 18:19	1
Acetone	<10		10		ug/L			07/23/15 18:19	1
Benzene	<1.0		1.0		ug/L			07/23/15 18:19	1
Bromoform	<1.0		1.0		ug/L			07/23/15 18:19	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 18:19	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 18:19	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 18:19	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 18:19	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 18:19	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 18:19	1
Chloroform	<1.0		1.0		ug/L			07/23/15 18:19	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 18:19	1
cis-1,2-Dichloroethene	**1.9**		1.0		ug/L			07/23/15 18:19	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 18:19	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 18:19	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 18:19	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 18:19	1
Styrene	<1.0		1.0		ug/L			07/23/15 18:19	1
Tetrachloroethene	**12**		1.0		ug/L			07/23/15 18:19	1
Toluene	<1.0		1.0		ug/L			07/23/15 18:19	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 18:19	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 18:19	1
Trichloroethene	**1.2**		1.0		ug/L			07/23/15 18:19	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 18:19	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 18:19*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/23/15 18:19*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/23/15 18:19*	*1*
4-Bromofluorobenzene (Surr)	*118*		*70 - 130*		*07/23/15 18:19*	*1*

Client Sample ID: Dup-1

Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 18:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 18:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 18:41	1

Client Sample ID: Dup-1
Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-12
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 18:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 18:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 18:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 18:41	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 18:41	1
2-Hexanone	<10		10		ug/L			07/23/15 18:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 18:41	1
Acetone	<10		10		ug/L			07/23/15 18:41	1
Benzene	<1.0		1.0		ug/L			07/23/15 18:41	1
Bromoform	<1.0		1.0		ug/L			07/23/15 18:41	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 18:41	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 18:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 18:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 18:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 18:41	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 18:41	1
Chloroform	<1.0		1.0		ug/L			07/23/15 18:41	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 18:41	1
cis-1,2-Dichloroethene	**48**		1.0		ug/L			07/23/15 18:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 18:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 18:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 18:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 18:41	1
Styrene	<1.0		1.0		ug/L			07/23/15 18:41	1
Toluene	<1.0		1.0		ug/L			07/23/15 18:41	1
trans-1,2-Dichloroethene	**1.2**		1.0		ug/L			07/23/15 18:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 18:41	1
Trichloroethene	**33**		1.0		ug/L			07/23/15 18:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 18:41	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 18:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/23/15 18:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/23/15 18:41*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*07/23/15 18:41*	*1*
4-Bromofluorobenzene (Surr)	*120*		*70 - 130*		*07/23/15 18:41*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**360**		5.0		ug/L			07/26/15 21:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/26/15 21:28*	*5*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*		*07/26/15 21:28*	*5*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*07/26/15 21:28*	*5*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/26/15 21:28*	*5*

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-15A
Date Collected: 07/15/15 12:13
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-13
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/26/15 21:49	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/26/15 21:49	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			07/26/15 21:49	2
1,1-Dichloroethane	<2.0		2.0		ug/L			07/26/15 21:49	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/26/15 21:49	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/26/15 21:49	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/26/15 21:49	2
2-Butanone (MEK)	<20		20		ug/L			07/26/15 21:49	2
2-Hexanone	<20		20		ug/L			07/26/15 21:49	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			07/26/15 21:49	2
Acetone	<20		20		ug/L			07/26/15 21:49	2
Benzene	<2.0		2.0		ug/L			07/26/15 21:49	2
Bromoform	<2.0		2.0		ug/L			07/26/15 21:49	2
Bromomethane	<10		10		ug/L			07/26/15 21:49	2
Carbon disulfide	<4.0		4.0		ug/L			07/26/15 21:49	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/26/15 21:49	2
Chlorobenzene	<2.0		2.0		ug/L			07/26/15 21:49	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/26/15 21:49	2
Chloroethane	<10		10		ug/L			07/26/15 21:49	2
Chloroform	<2.0		2.0		ug/L			07/26/15 21:49	2
Chloromethane	<2.0		2.0		ug/L			07/26/15 21:49	2
cis-1,2-Dichloroethene	**19**		2.0		ug/L			07/26/15 21:49	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			07/26/15 21:49	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/26/15 21:49	2
Ethylbenzene	<2.0		2.0		ug/L			07/26/15 21:49	2
Methylene Chloride	<10		10		ug/L			07/26/15 21:49	2
Styrene	<2.0		2.0		ug/L			07/26/15 21:49	2
Tetrachloroethene	**320**		2.0		ug/L			07/26/15 21:49	2
Toluene	<2.0		2.0		ug/L			07/26/15 21:49	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/26/15 21:49	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			07/26/15 21:49	2
Trichloroethene	**87**		2.0		ug/L			07/26/15 21:49	2
Vinyl chloride	<2.0	*	2.0		ug/L			07/26/15 21:49	2
Xylenes, Total	<2.0		2.0		ug/L			07/26/15 21:49	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/26/15 21:49*	*2*
1,2-Dichloroethane-d4 (Surr)	*119*		*70 - 130*		*07/26/15 21:49*	*2*
Dibromofluoromethane (Surr)	*112*		*70 - 130*		*07/26/15 21:49*	*2*
4-Bromofluorobenzene (Surr)	*109*		*70 - 130*		*07/26/15 21:49*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**1.9**		0.10		mg/L			07/17/15 11:41	2
Sulfate	<1.0		1.0		mg/L			07/25/15 15:48	1
Chloride	**16**		0.50		mg/L			07/25/15 15:48	1
Nitrite as N	<0.050		0.050		mg/L			07/16/15 20:46	1

Client Sample ID: MW-15A

Lab Sample ID: 680-114574-13

Date Collected: 07/15/15 12:13

Matrix: Water

Date Received: 07/16/15 09:46

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 20:37	1
Manganese	**190**		5.0		ug/L		07/22/15 09:11	07/25/15 20:37	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 20:32	1
Manganese	**190**		5.0		ug/L		07/22/15 09:11	07/25/15 20:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 06:24	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 06:24	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 06:24	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 06:24	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 06:24	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-15B

Lab Sample ID: 680-114574-14

Date Collected: 07/15/15 10:39

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 19:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 19:26	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 19:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 19:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 19:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 19:26	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 19:26	1
2-Hexanone	<10		10		ug/L			07/23/15 19:26	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 19:26	1
Acetone	<10		10		ug/L			07/23/15 19:26	1
Benzene	<1.0		1.0		ug/L			07/23/15 19:26	1
Bromoform	<1.0		1.0		ug/L			07/23/15 19:26	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 19:26	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 19:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 19:26	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 19:26	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 19:26	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 19:26	1
Chloroform	<1.0		1.0		ug/L			07/23/15 19:26	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 19:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:26	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 19:26	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 19:26	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 19:26	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 19:26	1

Client Sample ID: MW-15B

Date Collected: 07/15/15 10:39
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-14
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.0		1.0		ug/L			07/23/15 19:26	1
Tetrachloroethene	**72**		1.0		ug/L			07/23/15 19:26	1
Toluene	<1.0		1.0		ug/L			07/23/15 19:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:26	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 19:26	1
Trichloroethene	**3.1**		1.0		ug/L			07/23/15 19:26	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 19:26	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 19:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/23/15 19:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*07/23/15 19:26*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/23/15 19:26*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*07/23/15 19:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**6.9**	**E**	0.10		mg/L			07/16/15 21:02	2
Nitrate as N	**6.4**	**H**	0.20		mg/L			07/17/15 11:56	4
Sulfate	<1.0		1.0		mg/L			07/25/15 16:03	1
Chloride	**14**		0.50		mg/L			07/25/15 16:03	1
Nitrite as N	<0.10		0.10		mg/L			07/16/15 21:02	2
Nitrite as N	<0.050	H	0.050		mg/L			07/17/15 12:11	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3600**		100		ug/L		07/22/15 09:11	07/25/15 20:47	1
Manganese	**110**		5.0		ug/L		07/22/15 09:11	07/25/15 20:47	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**520**		100		ug/L		07/22/15 09:11	07/25/15 20:42	1
Manganese	**58**		5.0		ug/L		07/22/15 09:11	07/25/15 20:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 07:41	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 07:41	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 07:41	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 07:41	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 07:41	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-15C

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 19:48	1

Client Sample ID: MW-15C
Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-15
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 19:48	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 19:48	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 19:48	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:48	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 19:48	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 19:48	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 19:48	1
2-Hexanone	<10		10		ug/L			07/23/15 19:48	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 19:48	1
Acetone	<10		10		ug/L			07/23/15 19:48	1
Benzene	<1.0		1.0		ug/L			07/23/15 19:48	1
Bromoform	<1.0		1.0		ug/L			07/23/15 19:48	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 19:48	1
Carbon disulfide	**30**		2.0		ug/L			07/23/15 19:48	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 19:48	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 19:48	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 19:48	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 19:48	1
Chloroform	**22**		1.0		ug/L			07/23/15 19:48	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 19:48	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:48	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 19:48	1
Dichlorobromomethane	**1.6**		1.0		ug/L			07/23/15 19:48	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 19:48	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 19:48	1
Styrene	<1.0		1.0		ug/L			07/23/15 19:48	1
Tetrachloroethene	**10**		1.0		ug/L			07/23/15 19:48	1
Toluene	<1.0		1.0		ug/L			07/23/15 19:48	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 19:48	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 19:48	1
Trichloroethene	**1.9**		1.0		ug/L			07/23/15 19:48	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 19:48	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 19:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/23/15 19:48*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/23/15 19:48*	*1*
4-Bromofluorobenzene (Surr)	*123*		*70 - 130*		*07/23/15 19:48*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050		mg/L			07/16/15 18:58	1
Sulfate	**20**		1.0		mg/L			07/25/15 16:19	1
Chloride	**9.4**		0.50		mg/L			07/25/15 16:19	1
Nitrite as N	<0.050		0.050		mg/L			07/16/15 18:58	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 20:57	1

Client Sample ID: MW-15C

Lab Sample ID: 680-114574-15

Date Collected: 07/15/15 08:54

Matrix: Water

Date Received: 07/16/15 09:46

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	<5.0		5.0		ug/L		07/22/15 09:11	07/25/15 20:57	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 20:52	1
Manganese	<5.0		5.0		ug/L		07/22/15 09:11	07/25/15 20:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	**1.5**		1.0		mg/L			07/28/15 08:08	1
TOC Result 1	**1.5**		1.0		mg/L			07/28/15 08:08	1
TOC Result 2	**1.4**		1.0		mg/L			07/28/15 08:08	1
TOC Result 3	**1.5**		1.0		mg/L			07/28/15 08:08	1
TOC Result 4	**1.4**		1.0		mg/L			07/28/15 08:08	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-13A

Lab Sample ID: 680-114574-16

Date Collected: 07/15/15 14:09

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:09	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 20:09	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:09	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:09	1
1,1-Dichloroethene	**3.4**		1.0		ug/L			07/23/15 20:09	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:09	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 20:09	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 20:09	1
2-Hexanone	<10		10		ug/L			07/23/15 20:09	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 20:09	1
Acetone	**25**		10		ug/L			07/23/15 20:09	1
Benzene	**17**		1.0		ug/L			07/23/15 20:09	1
Bromoform	<1.0		1.0		ug/L			07/23/15 20:09	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 20:09	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 20:09	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 20:09	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 20:09	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 20:09	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 20:09	1
Chloroform	<1.0		1.0		ug/L			07/23/15 20:09	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 20:09	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:09	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 20:09	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 20:09	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 20:09	1
Styrene	<1.0		1.0		ug/L			07/23/15 20:09	1
Toluene	<1.0		1.0		ug/L			07/23/15 20:09	1

Client Sample ID: MW-13A

Date Collected: 07/15/15 14:09
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-16

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	**13**		1.0		ug/L			07/23/15 20:09	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:09	1
Vinyl chloride	**180**		1.0		ug/L			07/23/15 20:09	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 20:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 20:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 20:09*	*1*
Dibromofluoromethane (Surr)	*95*		*70 - 130*		*07/23/15 20:09*	*1*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*		*07/23/15 20:09*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**2000**		20		ug/L			07/26/15 22:10	20
Tetrachloroethene	**750**		20		ug/L			07/26/15 22:10	20
Trichloroethene	**730**		20		ug/L			07/26/15 22:10	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*70 - 130*		*07/26/15 22:10*	*20*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*07/26/15 22:10*	*20*
Dibromofluoromethane (Surr)	*108*		*70 - 130*		*07/26/15 22:10*	*20*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/26/15 22:10*	*20*

Client Sample ID: MW-5B

Date Collected: 07/15/15 12:19
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-17

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:31	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 20:31	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:31	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:31	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 20:31	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:31	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 20:31	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 20:31	1
2-Hexanone	<10		10		ug/L			07/23/15 20:31	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 20:31	1
Acetone	<10		10		ug/L			07/23/15 20:31	1
Benzene	**1.0**		1.0		ug/L			07/23/15 20:31	1
Bromoform	<1.0		1.0		ug/L			07/23/15 20:31	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 20:31	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 20:31	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 20:31	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 20:31	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 20:31	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 20:31	1
Chloroform	<1.0		1.0		ug/L			07/23/15 20:31	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 20:31	1

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-5B
Date Collected: 07/15/15 12:19
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-17
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:31	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 20:31	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 20:31	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 20:31	1
Styrene	<1.0		1.0		ug/L			07/23/15 20:31	1
Toluene	<1.0		1.0		ug/L			07/23/15 20:31	1
trans-1,2-Dichloroethene	**4.6**		1.0		ug/L			07/23/15 20:31	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:31	1
Vinyl chloride	**2.3**		1.0		ug/L			07/23/15 20:31	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 20:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 20:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 20:31*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/23/15 20:31*	*1*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*		*07/23/15 20:31*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	**570**		5.0		ug/L			07/26/15 22:31	5
Tetrachloroethene	**340**		5.0		ug/L			07/26/15 22:31	5
Trichloroethene	**200**		5.0		ug/L			07/26/15 22:31	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*88*		*70 - 130*		*07/26/15 22:31*	*5*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*07/26/15 22:31*	*5*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/26/15 22:31*	*5*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*07/26/15 22:31*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.087**		0.050		mg/L			07/16/15 19:45	1
Sulfate	<1.0		1.0		mg/L			07/25/15 16:34	1
Chloride	**8.8**		0.50		mg/L			07/25/15 16:34	1
Nitrite as N	<0.050		0.050		mg/L			07/16/15 19:45	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:07	1
Manganese	**81**		5.0		ug/L		07/22/15 09:11	07/25/15 21:07	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:02	1
Manganese	**79**		5.0		ug/L		07/22/15 09:11	07/25/15 21:02	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 08:30	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 08:30	1

Client Sample ID: MW-5B

Date Collected: 07/15/15 12:19
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-17
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
TOC Result 2	<1.0		1.0		mg/L			07/28/15 08:30	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 08:30	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 08:30	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-16A

Date Collected: 07/15/15 10:22
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-18
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 20:53	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 20:53	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 20:53	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 20:53	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 20:53	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 20:53	1
2-Hexanone	<10		10		ug/L			07/23/15 20:53	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 20:53	1
Acetone	<10		10		ug/L			07/23/15 20:53	1
Benzene	<1.0		1.0		ug/L			07/23/15 20:53	1
Bromoform	<1.0		1.0		ug/L			07/23/15 20:53	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 20:53	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 20:53	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 20:53	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 20:53	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 20:53	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 20:53	1
Chloroform	<1.0		1.0		ug/L			07/23/15 20:53	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 20:53	1
cis-1,2-Dichloroethene	**93**		1.0		ug/L			07/23/15 20:53	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:53	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 20:53	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 20:53	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 20:53	1
Styrene	<1.0		1.0		ug/L			07/23/15 20:53	1
Toluene	<1.0		1.0		ug/L			07/23/15 20:53	1
trans-1,2-Dichloroethene	**2.8**		1.0		ug/L			07/23/15 20:53	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 20:53	1
Trichloroethene	**49**		1.0		ug/L			07/23/15 20:53	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 20:53	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 20:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/23/15 20:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*07/23/15 20:53*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*07/23/15 20:53*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*07/23/15 20:53*	*1*

Client Sample ID: MW-16A

Lab Sample ID: 680-114574-18

Date Collected: 07/15/15 10:22

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**400**		5.0		ug/L			07/26/15 22:52	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*70 - 130*		*07/26/15 22:52*	*5*
1,2-Dichloroethane-d4 (Surr)	*114*		*70 - 130*		*07/26/15 22:52*	*5*
Dibromofluoromethane (Surr)	*110*		*70 - 130*		*07/26/15 22:52*	*5*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/26/15 22:52*	*5*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**0.83**		0.050		mg/L			07/16/15 20:00	1
Sulfate	<1.0		1.0		mg/L			07/25/15 16:49	1
Chloride	**1.7**		0.50		mg/L			07/25/15 16:49	1
Nitrite as N	<0.050		0.050		mg/L			07/16/15 20:00	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**230**		100		ug/L		07/22/15 09:11	07/25/15 21:27	1
Manganese	**19**		5.0		ug/L		07/22/15 09:11	07/25/15 21:27	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:22	1
Manganese	**14**		5.0		ug/L		07/22/15 09:11	07/25/15 21:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 09:00	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 09:00	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 09:00	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 09:00	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 09:00	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-16B

Lab Sample ID: 680-114574-19

Date Collected: 07/15/15 08:54

Matrix: Water

Date Received: 07/16/15 09:46

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 21:14	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 21:14	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 21:14	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 21:14	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 21:14	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 21:14	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 21:14	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 21:14	1
2-Hexanone	<10		10		ug/L			07/23/15 21:14	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 21:14	1

Client Sample ID: MW-16B
Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-19
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			07/23/15 21:14	1
Benzene	<1.0		1.0		ug/L			07/23/15 21:14	1
Bromoform	<1.0		1.0		ug/L			07/23/15 21:14	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 21:14	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 21:14	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 21:14	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 21:14	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 21:14	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 21:14	1
Chloroform	<1.0		1.0		ug/L			07/23/15 21:14	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 21:14	1
cis-1,2-Dichloroethene	**190**		1.0		ug/L			07/23/15 21:14	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 21:14	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 21:14	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 21:14	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 21:14	1
Styrene	<1.0		1.0		ug/L			07/23/15 21:14	1
Toluene	<1.0		1.0		ug/L			07/23/15 21:14	1
trans-1,2-Dichloroethene	**17**		1.0		ug/L			07/23/15 21:14	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 21:14	1
Trichloroethene	**92**		1.0		ug/L			07/23/15 21:14	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 21:14	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 21:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/23/15 21:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 21:14*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*07/23/15 21:14*	*1*
4-Bromofluorobenzene (Surr)	*125*		*70 - 130*		*07/23/15 21:14*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**980**		10		ug/L			07/26/15 23:13	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*70 - 130*		*07/26/15 23:13*	*10*
1,2-Dichloroethane-d4 (Surr)	*112*		*70 - 130*		*07/26/15 23:13*	*10*
Dibromofluoromethane (Surr)	*109*		*70 - 130*		*07/26/15 23:13*	*10*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*07/26/15 23:13*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**3.1**		0.10		mg/L			07/16/15 20:15	2
Sulfate	<1.0		1.0		mg/L			07/25/15 17:05	1
Chloride	**4.1**		0.50		mg/L			07/25/15 17:05	1
Nitrite as N	<0.10		0.10		mg/L			07/16/15 20:15	2
Nitrite as N	<0.050	H	0.050		mg/L			07/17/15 12:27	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:37	1

Client Sample ID: MW-16B

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-19

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**7.0**		5.0		ug/L		07/22/15 09:11	07/25/15 21:37	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:32	1
Manganese	**10**		5.0		ug/L		07/22/15 09:11	07/25/15 21:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 09:32	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 09:32	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 09:32	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 09:32	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 09:32	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: MW-16C

Date Collected: 07/15/15 14:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 21:36	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 21:36	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 21:36	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 21:36	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 21:36	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 21:36	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 21:36	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 21:36	1
2-Hexanone	<10		10		ug/L			07/23/15 21:36	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 21:36	1
Acetone	<10		10		ug/L			07/23/15 21:36	1
Benzene	<1.0		1.0		ug/L			07/23/15 21:36	1
Bromoform	<1.0		1.0		ug/L			07/23/15 21:36	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 21:36	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 21:36	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 21:36	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 21:36	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 21:36	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 21:36	1
Chloroform	<1.0		1.0		ug/L			07/23/15 21:36	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 21:36	1
cis-1,2-Dichloroethene	**110**		1.0		ug/L			07/23/15 21:36	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 21:36	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 21:36	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 21:36	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 21:36	1
Styrene	<1.0		1.0		ug/L			07/23/15 21:36	1

Client Sample ID: MW-16C
Date Collected: 07/15/15 14:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-20
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.0		1.0		ug/L			07/23/15 21:36	1
trans-1,2-Dichloroethene	**2.0**		1.0		ug/L			07/23/15 21:36	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 21:36	1
Trichloroethene	**72**		1.0		ug/L			07/23/15 21:36	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 21:36	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*70 - 130*		*07/23/15 21:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/23/15 21:36*	*1*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*07/23/15 21:36*	*1*
4-Bromofluorobenzene (Surr)	*127*		*70 - 130*		*07/23/15 21:36*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS) - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	**820**		10		ug/L			07/26/15 23:35	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*70 - 130*		*07/26/15 23:35*	*10*
1,2-Dichloroethane-d4 (Surr)	*116*		*70 - 130*		*07/26/15 23:35*	*10*
Dibromofluoromethane (Surr)	*111*		*70 - 130*		*07/26/15 23:35*	*10*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*07/26/15 23:35*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	**2.8**		0.10		mg/L			07/16/15 20:31	2
Sulfate	**2.1**		1.0		mg/L			07/25/15 17:20	1
Chloride	**4.6**		0.50		mg/L			07/25/15 17:20	1
Nitrite as N	<0.050		0.050		mg/L			07/17/15 12:42	1

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:47	1
Manganese	**6.2**		5.0		ug/L		07/22/15 09:11	07/25/15 21:47	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 21:42	1
Manganese	<5.0		5.0		ug/L		07/22/15 09:11	07/25/15 21:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 09:59	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 09:59	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 09:59	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 09:59	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 09:59	1
Ferrous Iron	<0.10	HF	0.10		mg/L			07/16/15 17:21	1

Client Sample ID: Dup-2

Date Collected: 07/15/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-21
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/28/15 11:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/28/15 11:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/28/15 11:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/28/15 11:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/28/15 11:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/28/15 11:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/28/15 11:41	1
2-Butanone (MEK)	<10		10		ug/L			07/28/15 11:41	1
2-Hexanone	<10		10		ug/L			07/28/15 11:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/28/15 11:41	1
Acetone	<10		10		ug/L			07/28/15 11:41	1
Benzene	<1.0		1.0		ug/L			07/28/15 11:41	1
Bromoform	<1.0		1.0		ug/L			07/28/15 11:41	1
Bromomethane	<5.0		5.0		ug/L			07/28/15 11:41	1
Carbon disulfide	**35**		2.0		ug/L			07/28/15 11:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/28/15 11:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/28/15 11:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/28/15 11:41	1
Chloroethane	<5.0		5.0		ug/L			07/28/15 11:41	1
Chloroform	**23**		1.0		ug/L			07/28/15 11:41	1
Chloromethane	<1.0		1.0		ug/L			07/28/15 11:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/28/15 11:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/28/15 11:41	1
Dichlorobromomethane	**1.5**		1.0		ug/L			07/28/15 11:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/28/15 11:41	1
Methylene Chloride	<5.0	*	5.0		ug/L			07/28/15 11:41	1
Styrene	<1.0		1.0		ug/L			07/28/15 11:41	1
Tetrachloroethene	**9.9**		1.0		ug/L			07/28/15 11:41	1
Toluene	<1.0		1.0		ug/L			07/28/15 11:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/28/15 11:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/28/15 11:41	1
Trichloroethene	**2.0**		1.0		ug/L			07/28/15 11:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/28/15 11:41	1
Xylenes, Total	<1.0		1.0		ug/L			07/28/15 11:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/28/15 11:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/28/15 11:41*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/28/15 11:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/28/15 11:41*	*1*

Client Sample ID: Trip Blank

Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/27/15 14:49	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/27/15 14:49	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/27/15 14:49	1

Client Sample ID: Trip Blank
Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-22
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			07/27/15 14:49	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/27/15 14:49	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/27/15 14:49	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/27/15 14:49	1
2-Butanone (MEK)	<10		10		ug/L			07/27/15 14:49	1
2-Hexanone	<10		10		ug/L			07/27/15 14:49	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/27/15 14:49	1
Acetone	<10		10		ug/L			07/27/15 14:49	1
Benzene	<1.0		1.0		ug/L			07/27/15 14:49	1
Bromoform	<1.0		1.0		ug/L			07/27/15 14:49	1
Bromomethane	<5.0		5.0		ug/L			07/27/15 14:49	1
Carbon disulfide	<2.0		2.0		ug/L			07/27/15 14:49	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/27/15 14:49	1
Chlorobenzene	<1.0		1.0		ug/L			07/27/15 14:49	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/27/15 14:49	1
Chloroethane	<5.0		5.0		ug/L			07/27/15 14:49	1
Chloroform	<1.0		1.0		ug/L			07/27/15 14:49	1
Chloromethane	<1.0		1.0		ug/L			07/27/15 14:49	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/27/15 14:49	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/27/15 14:49	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/27/15 14:49	1
Ethylbenzene	<1.0		1.0		ug/L			07/27/15 14:49	1
Methylene Chloride	<5.0		5.0		ug/L			07/27/15 14:49	1
Styrene	<1.0		1.0		ug/L			07/27/15 14:49	1
Tetrachloroethene	<1.0		1.0		ug/L			07/27/15 14:49	1
Toluene	<1.0		1.0		ug/L			07/27/15 14:49	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/27/15 14:49	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/27/15 14:49	1
Trichloroethene	<1.0		1.0		ug/L			07/27/15 14:49	1
Vinyl chloride	<1.0		1.0		ug/L			07/27/15 14:49	1
Xylenes, Total	<1.0		1.0		ug/L			07/27/15 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/27/15 14:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*07/27/15 14:49*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/27/15 14:49*	*1*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*		*07/27/15 14:49*	*1*

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-114574-1	MW-5C	98	103	100	125
680-114574-2	MW-8A	97	102	98	123
680-114574-3	MW-13C	98	103	99	125
680-114574-4	MW-10A	101	105	97	124
680-114574-4 - DL	MW-10A	95	120	112	98
680-114574-5	MW-13B	100	101	96	123
680-114574-5 - DL	MW-13B	98	120	114	96
680-114574-6	MW-17A	89	125	109	100
680-114574-7	MW-8B	91	130	110	110
680-114574-8	MW-9A	100	101	96	119
680-114574-8 - DL	MW-9A	100	104	104	97
680-114574-9	MW-19C	98	105	101	118
680-114574-10	MW-19B	101	104	99	119
680-114574-10 - DL	MW-19B	100	110	106	97
680-114574-11	MW-19D	98	103	98	118
680-114574-12	Dup-1	97	100	96	120
680-114574-12 - DL	Dup-1	100	108	105	99
680-114574-13	MW-15A	96	119	112	109
680-114574-14	MW-15B	99	103	98	125
680-114574-15	MW-15C	98	104	98	123
680-114574-16	MW-13A	98	101	95	110
680-114574-16 - DL	MW-13A	97	112	108	101
680-114574-17	MW-5B	98	101	99	122
680-114574-17 - DL	MW-5B	88	112	110	105
680-114574-18	MW-16A	98	104	98	125
680-114574-18 - DL	MW-16A	98	114	110	98
680-114574-19	MW-16B	100	101	96	125
680-114574-19 - DL	MW-16B	96	112	109	98
680-114574-20	MW-16C	99	101	97	127
680-114574-20 - DL	MW-16C	95	116	111	94
680-114574-21	Dup-2	103	97	101	99
680-114574-22	Trip Blank	102	101	101	95
LCS 680-392898/3	Lab Control Sample	99	100	95	91
LCS 680-393225/4	Lab Control Sample	101	104	104	101
LCS 680-393238/4	Lab Control Sample	103	108	108	103
LCS 680-393418/4	Lab Control Sample	102	104	104	104
LCSD 680-392898/4	Lab Control Sample Dup	97	102	96	94
LCSD 680-393225/5	Lab Control Sample Dup	88	92	90	90
LCSD 680-393238/5	Lab Control Sample Dup	98	101	101	98
LCSD 680-393418/5	Lab Control Sample Dup	102	108	107	100
MB 680-392898/8	Method Blank	101	100	96	122
MB 680-393225/9	Method Blank	102	98	101	100
MB 680-393238/9	Method Blank	103	99	99	99
MB 680-393418/9	Method Blank	103	98	100	101

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-392898/8
Matrix: Water
Analysis Batch: 392898

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 13:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 13:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 13:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 13:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 13:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 13:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 13:41	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 13:41	1
2-Hexanone	<10		10		ug/L			07/23/15 13:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 13:41	1
Acetone	<10		10		ug/L			07/23/15 13:41	1
Benzene	<1.0		1.0		ug/L			07/23/15 13:41	1
Bromoform	<1.0		1.0		ug/L			07/23/15 13:41	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 13:41	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 13:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 13:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 13:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 13:41	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 13:41	1
Chloroform	<1.0		1.0		ug/L			07/23/15 13:41	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 13:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 13:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 13:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 13:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 13:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 13:41	1
Styrene	<1.0		1.0		ug/L			07/23/15 13:41	1
Tetrachloroethene	<1.0		1.0		ug/L			07/23/15 13:41	1
Toluene	<1.0		1.0		ug/L			07/23/15 13:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 13:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 13:41	1
Trichloroethene	<1.0		1.0		ug/L			07/23/15 13:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 13:41	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*07/23/15 13:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*07/23/15 13:41*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*07/23/15 13:41*	*1*
4-Bromofluorobenzene (Surr)	*122*		*70 - 130*		*07/23/15 13:41*	*1*

Lab Sample ID: LCS 680-392898/3
Matrix: Water
Analysis Batch: 392898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	48.6		ug/L		97	74 - 128
1,1,2,2-Tetrachloroethane	50.0	51.3		ug/L		103	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-392898/3
Matrix: Water
Analysis Batch: 392898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	48.8		ug/L		98	79 - 125
1,1-Dichloroethane	50.0	47.4		ug/L		95	80 - 120
1,1-Dichloroethene	50.0	46.0		ug/L		92	74 - 125
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 130
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 123
2-Butanone (MEK)	250	256		ug/L		103	75 - 133
2-Hexanone	250	227		ug/L		91	70 - 141
4-Methyl-2-pentanone (MIBK)	250	263		ug/L		105	75 - 135
Acetone	250	230		ug/L		92	60 - 154
Benzene	50.0	48.9		ug/L		98	73 - 131
Bromoform	50.0	56.0		ug/L		112	69 - 135
Bromomethane	50.0	55.8		ug/L		112	20 - 180
Carbon disulfide	50.0	47.1		ug/L		94	73 - 127
Carbon tetrachloride	50.0	48.9		ug/L		98	75 - 130
Chlorobenzene	50.0	49.2		ug/L		98	80 - 120
Chlorodibromomethane	50.0	49.0		ug/L		98	71 - 136
Chloroethane	50.0	48.5		ug/L		97	50 - 151
Chloroform	50.0	48.6		ug/L		97	79 - 122
Chloromethane	50.0	50.7		ug/L		101	63 - 126
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 122
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 133
Dichlorobromomethane	50.0	49.9		ug/L		100	77 - 129
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	48.5		ug/L		97	76 - 129
Styrene	50.0	52.3		ug/L		105	80 - 122
Tetrachloroethene	50.0	48.8		ug/L		98	77 - 123
Toluene	50.0	50.5		ug/L		101	80 - 122
trans-1,2-Dichloroethene	50.0	50.1		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	74 - 140
Trichloroethene	50.0	50.7		ug/L		101	80 - 123
Vinyl chloride	50.0	50.8		ug/L		102	68 - 132
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*99*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*95*		*70 - 130*
4-Bromofluorobenzene (Surr)	*91*		*70 - 130*

Lab Sample ID: LCSD 680-392898/4
Matrix: Water
Analysis Batch: 392898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	48.1		ug/L		96	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L		100	72 - 128	3	20
1,1,2-Trichloroethane	50.0	48.7		ug/L		97	79 - 125	0	20
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-392898/4
Matrix: Water
Analysis Batch: 392898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	47.2		ug/L		94	74 - 125	3	20
1,2-Dichloroethane	50.0	47.6		ug/L		95	75 - 130	3	20
1,2-Dichloropropane	50.0	49.8		ug/L		100	80 - 123	2	20
2-Butanone (MEK)	250	257		ug/L		103	75 - 133	0	30
2-Hexanone	250	222		ug/L		89	70 - 141	2	40
4-Methyl-2-pentanone (MIBK)	250	259		ug/L		104	75 - 135	1	30
Acetone	250	246		ug/L		99	60 - 154	7	40
Benzene	50.0	49.5		ug/L		99	73 - 131	1	30
Bromoform	50.0	54.8		ug/L		110	69 - 135	2	20
Bromomethane	50.0	57.2		ug/L		114	20 - 180	3	40
Carbon disulfide	50.0	47.3		ug/L		95	73 - 127	0	20
Carbon tetrachloride	50.0	49.2		ug/L		98	75 - 130	1	20
Chlorobenzene	50.0	49.2		ug/L		98	80 - 120	0	20
Chlorodibromomethane	50.0	49.6		ug/L		99	71 - 136	1	20
Chloroethane	50.0	48.5		ug/L		97	50 - 151	0	30
Chloroform	50.0	48.9		ug/L		98	79 - 122	1	20
Chloromethane	50.0	51.1		ug/L		102	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	49.1		ug/L		98	80 - 122	0	20
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	80 - 133	1	20
Dichlorobromomethane	50.0	50.1		ug/L		100	77 - 129	0	20
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120	1	20
Methylene Chloride	50.0	48.0		ug/L		96	76 - 129	1	20
Styrene	50.0	51.4		ug/L		103	80 - 122	2	20
Tetrachloroethene	50.0	49.0		ug/L		98	77 - 123	0	20
Toluene	50.0	51.3		ug/L		103	80 - 122	2	20
trans-1,2-Dichloroethene	50.0	50.8		ug/L		102	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	50.9		ug/L		102	74 - 140	1	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 123	0	20
Vinyl chloride	50.0	51.6		ug/L		103	68 - 132	2	30
Xylenes, Total	100	99.3		ug/L		99	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*97*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*

Lab Sample ID: MB 680-393225/9
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/26/15 19:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/26/15 19:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/26/15 19:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/26/15 19:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/26/15 19:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/26/15 19:42	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-393225/9
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/26/15 19:42	1
2-Butanone (MEK)	<10		10		ug/L			07/26/15 19:42	1
2-Hexanone	<10		10		ug/L			07/26/15 19:42	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/26/15 19:42	1
Acetone	<10		10		ug/L			07/26/15 19:42	1
Benzene	<1.0		1.0		ug/L			07/26/15 19:42	1
Bromoform	<1.0		1.0		ug/L			07/26/15 19:42	1
Bromomethane	<5.0		5.0		ug/L			07/26/15 19:42	1
Carbon disulfide	<2.0		2.0		ug/L			07/26/15 19:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/26/15 19:42	1
Chlorobenzene	<1.0		1.0		ug/L			07/26/15 19:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/26/15 19:42	1
Chloroethane	<5.0		5.0		ug/L			07/26/15 19:42	1
Chloroform	<1.0		1.0		ug/L			07/26/15 19:42	1
Chloromethane	<1.0		1.0		ug/L			07/26/15 19:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/26/15 19:42	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/26/15 19:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/26/15 19:42	1
Ethylbenzene	<1.0		1.0		ug/L			07/26/15 19:42	1
Methylene Chloride	<5.0		5.0		ug/L			07/26/15 19:42	1
Styrene	<1.0		1.0		ug/L			07/26/15 19:42	1
Tetrachloroethene	<1.0		1.0		ug/L			07/26/15 19:42	1
Toluene	<1.0		1.0		ug/L			07/26/15 19:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/26/15 19:42	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/26/15 19:42	1
Trichloroethene	<1.0		1.0		ug/L			07/26/15 19:42	1
Vinyl chloride	<1.0		1.0		ug/L			07/26/15 19:42	1
Xylenes, Total	<1.0		1.0		ug/L			07/26/15 19:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*07/26/15 19:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/26/15 19:42*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*07/26/15 19:42*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*07/26/15 19:42*	*1*

Lab Sample ID: LCS 680-393225/4
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.6		ug/L		105	74 - 128
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/L		106	72 - 128
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	79 - 125
1,1-Dichloroethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	49.6		ug/L		99	74 - 125
1,2-Dichloroethane	50.0	51.9		ug/L		104	75 - 130
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 123
2-Butanone (MEK)	250	278		ug/L		111	75 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-393225/4
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	272		ug/L		109	70 - 141
4-Methyl-2-pentanone (MIBK)	250	269		ug/L		108	75 - 135
Acetone	250	246		ug/L		99	60 - 154
Benzene	50.0	51.4		ug/L		103	73 - 131
Bromoform	50.0	57.7		ug/L		115	69 - 135
Bromomethane	50.0	59.2		ug/L		118	20 - 180
Carbon disulfide	50.0	48.8		ug/L		98	73 - 127
Carbon tetrachloride	50.0	53.8		ug/L		108	75 - 130
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120
Chlorodibromomethane	50.0	53.4		ug/L		107	71 - 136
Chloroethane	50.0	49.8		ug/L		100	50 - 151
Chloroform	50.0	52.0		ug/L		104	79 - 122
Chloromethane	50.0	53.5		ug/L		107	63 - 126
cis-1,2-Dichloroethene	50.0	53.3		ug/L		107	80 - 122
cis-1,3-Dichloropropene	50.0	55.2		ug/L		110	80 - 133
Dichlorobromomethane	50.0	53.6		ug/L		107	77 - 129
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120
Methylene Chloride	50.0	56.2		ug/L		112	76 - 129
Styrene	50.0	52.5		ug/L		105	80 - 122
Tetrachloroethene	50.0	51.4		ug/L		103	77 - 123
Toluene	50.0	51.4		ug/L		103	80 - 122
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 123
trans-1,3-Dichloropropene	50.0	55.1		ug/L		110	74 - 140
Trichloroethene	50.0	50.9		ug/L		102	80 - 123
Vinyl chloride	50.0	61.4		ug/L		123	68 - 132
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*

Lab Sample ID: LCSD 680-393225/5
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	45.9		ug/L		92	74 - 128	14	20
1,1,2,2-Tetrachloroethane	50.0	45.6		ug/L		91	72 - 128	15	20
1,1,2-Trichloroethane	50.0	44.4		ug/L		89	79 - 125	16	20
1,1-Dichloroethane	50.0	44.5		ug/L		89	80 - 120	15	20
1,1-Dichloroethene	50.0	42.3		ug/L		85	74 - 125	16	20
1,2-Dichloroethane	50.0	45.7		ug/L		91	75 - 130	13	20
1,2-Dichloropropane	50.0	45.0		ug/L		90	80 - 123	15	20
2-Butanone (MEK)	250	242		ug/L		97	75 - 133	14	30
2-Hexanone	250	238		ug/L		95	70 - 141	13	40
4-Methyl-2-pentanone (MIBK)	250	232		ug/L		93	75 - 135	15	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-393225/5
Matrix: Water
Analysis Batch: 393225

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	215		ug/L		86	60 - 154	14	40
Benzene			50.0	44.5		ug/L		89	73 - 131	14	30
Bromoform			50.0	50.0		ug/L		100	69 - 135	14	20
Bromomethane			50.0	57.3		ug/L		115	20 - 180	3	40
Carbon disulfide			50.0	44.2		ug/L		88	73 - 127	10	20
Carbon tetrachloride			50.0	46.7		ug/L		93	75 - 130	14	20
Chlorobenzene			50.0	44.5		ug/L		89	80 - 120	12	20
Chlorodibromomethane			50.0	46.2		ug/L		92	71 - 136	14	20
Chloroethane			50.0	44.8		ug/L		90	50 - 151	11	30
Chloroform			50.0	45.7		ug/L		91	79 - 122	13	20
Chloromethane			50.0	45.0		ug/L		90	63 - 126	17	30
cis-1,2-Dichloroethene			50.0	45.7		ug/L		91	80 - 122	15	20
cis-1,3-Dichloropropene			50.0	47.1		ug/L		94	80 - 133	16	20
Dichlorobromomethane			50.0	46.4		ug/L		93	77 - 129	14	20
Ethylbenzene			50.0	45.4		ug/L		91	80 - 120	12	20
Methylene Chloride			50.0	48.7		ug/L		97	76 - 129	14	20
Styrene			50.0	46.3		ug/L		93	80 - 122	13	20
Tetrachloroethene			50.0	44.4		ug/L		89	77 - 123	15	20
Toluene			50.0	44.5		ug/L		89	80 - 122	14	20
trans-1,2-Dichloroethene			50.0	45.8		ug/L		92	78 - 123	14	20
trans-1,3-Dichloropropene			50.0	47.3		ug/L		95	74 - 140	15	20
Trichloroethene			50.0	45.8		ug/L		92	80 - 123	11	20
Vinyl chloride			50.0	43.1	*	ug/L		86	68 - 132	35	30
Xylenes, Total			100	91.4		ug/L		91	80 - 120	12	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*88*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*
Dibromofluoromethane (Surr)	*90*		*70 - 130*
4-Bromofluorobenzene (Surr)	*90*		*70 - 130*

Lab Sample ID: MB 680-393238/9
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/27/15 10:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/27/15 10:54	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/27/15 10:54	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/27/15 10:54	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/27/15 10:54	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/27/15 10:54	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/27/15 10:54	1
2-Butanone (MEK)	<10		10		ug/L			07/27/15 10:54	1
2-Hexanone	<10		10		ug/L			07/27/15 10:54	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/27/15 10:54	1
Acetone	<10		10		ug/L			07/27/15 10:54	1
Benzene	<1.0		1.0		ug/L			07/27/15 10:54	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-393238/9
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			07/27/15 10:54	1
Bromomethane	<5.0		5.0		ug/L			07/27/15 10:54	1
Carbon disulfide	<2.0		2.0		ug/L			07/27/15 10:54	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/27/15 10:54	1
Chlorobenzene	<1.0		1.0		ug/L			07/27/15 10:54	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/27/15 10:54	1
Chloroethane	<5.0		5.0		ug/L			07/27/15 10:54	1
Chloroform	<1.0		1.0		ug/L			07/27/15 10:54	1
Chloromethane	<1.0		1.0		ug/L			07/27/15 10:54	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/27/15 10:54	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/27/15 10:54	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/27/15 10:54	1
Ethylbenzene	<1.0		1.0		ug/L			07/27/15 10:54	1
Methylene Chloride	<5.0		5.0		ug/L			07/27/15 10:54	1
Styrene	<1.0		1.0		ug/L			07/27/15 10:54	1
Tetrachloroethene	<1.0		1.0		ug/L			07/27/15 10:54	1
Toluene	<1.0		1.0		ug/L			07/27/15 10:54	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/27/15 10:54	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/27/15 10:54	1
Trichloroethene	<1.0		1.0		ug/L			07/27/15 10:54	1
Vinyl chloride	<1.0		1.0		ug/L			07/27/15 10:54	1
Xylenes, Total	<1.0		1.0		ug/L			07/27/15 10:54	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/27/15 10:54*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/27/15 10:54*	*1*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*07/27/15 10:54*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/27/15 10:54*	*1*

Lab Sample ID: LCS 680-393238/4
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	74 - 128
1,1,2,2-Tetrachloroethane	50.0	54.4		ug/L		109	72 - 128
1,1,2-Trichloroethane	50.0	53.4		ug/L		107	79 - 125
1,1-Dichloroethane	50.0	52.4		ug/L		105	80 - 120
1,1-Dichloroethene	50.0	46.4		ug/L		93	74 - 125
1,2-Dichloroethane	50.0	54.5		ug/L		109	75 - 130
1,2-Dichloropropane	50.0	53.2		ug/L		106	80 - 123
2-Butanone (MEK)	250	283		ug/L		113	75 - 133
2-Hexanone	250	282		ug/L		113	70 - 141
4-Methyl-2-pentanone (MIBK)	250	278		ug/L		111	75 - 135
Acetone	250	250		ug/L		100	60 - 154
Benzene	50.0	52.4		ug/L		105	73 - 131
Bromoform	50.0	60.0		ug/L		120	69 - 135
Bromomethane	50.0	61.3		ug/L		123	20 - 180

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-393238/4
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Carbon disulfide			50.0	45.9		ug/L		92	73 - 127		
Carbon tetrachloride			50.0	53.3		ug/L		107	75 - 130		
Chlorobenzene			50.0	51.6		ug/L		103	80 - 120		
Chlorodibromomethane			50.0	54.7		ug/L		109	71 - 136		
Chloroethane			50.0	46.5		ug/L		93	50 - 151		
Chloroform			50.0	53.4		ug/L		107	79 - 122		
Chloromethane			50.0	52.1		ug/L		104	63 - 126		
cis-1,2-Dichloroethene			50.0	54.0		ug/L		108	80 - 122		
cis-1,3-Dichloropropene			50.0	56.3		ug/L		113	80 - 133		
Dichlorobromomethane			50.0	55.9		ug/L		112	77 - 129		
Ethylbenzene			50.0	51.9		ug/L		104	80 - 120		
Methylene Chloride			50.0	57.2		ug/L		114	76 - 129		
Styrene			50.0	53.7		ug/L		107	80 - 122		
Tetrachloroethene			50.0	51.6		ug/L		103	77 - 123		
Toluene			50.0	52.4		ug/L		105	80 - 122		
trans-1,2-Dichloroethene			50.0	53.7		ug/L		107	78 - 123		
trans-1,3-Dichloropropene			50.0	56.7		ug/L		113	74 - 140		
Trichloroethene			50.0	52.3		ug/L		105	80 - 123		
Vinyl chloride			50.0	50.4		ug/L		101	68 - 132		
Xylenes, Total			100	105		ug/L		105	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*108*		*70 - 130*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*

Lab Sample ID: LCSD 680-393238/5
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane			50.0	50.9		ug/L		102	74 - 128	2	20
1,1,2,2-Tetrachloroethane			50.0	50.4		ug/L		101	72 - 128	8	20
1,1,2-Trichloroethane			50.0	49.8		ug/L		100	79 - 125	7	20
1,1-Dichloroethane			50.0	49.7		ug/L		99	80 - 120	5	20
1,1-Dichloroethene			50.0	47.2		ug/L		94	74 - 125	2	20
1,2-Dichloroethane			50.0	50.9		ug/L		102	75 - 130	7	20
1,2-Dichloropropane			50.0	50.9		ug/L		102	80 - 123	4	20
2-Butanone (MEK)			250	262		ug/L		105	75 - 133	8	30
2-Hexanone			250	264		ug/L		106	70 - 141	7	40
4-Methyl-2-pentanone (MIBK)			250	258		ug/L		103	75 - 135	7	30
Acetone			250	246		ug/L		99	60 - 154	2	40
Benzene			50.0	49.6		ug/L		99	73 - 131	5	30
Bromoform			50.0	55.5		ug/L		111	69 - 135	8	20
Bromomethane			50.0	60.2		ug/L		120	20 - 180	2	40
Carbon disulfide			50.0	47.2		ug/L		94	73 - 127	3	20
Carbon tetrachloride			50.0	52.5		ug/L		105	75 - 130	2	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-393238/5
Matrix: Water
Analysis Batch: 393238

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	48.4		ug/L		97	80 - 120	6	20
Chlorodibromomethane			50.0	51.1		ug/L		102	71 - 136	7	20
Chloroethane			50.0	50.2		ug/L		100	50 - 151	8	30
Chloroform			50.0	50.6		ug/L		101	79 - 122	5	20
Chloromethane			50.0	50.4		ug/L		101	63 - 126	3	30
cis-1,2-Dichloroethene			50.0	51.3		ug/L		103	80 - 122	5	20
cis-1,3-Dichloropropene			50.0	53.7		ug/L		107	80 - 133	5	20
Dichlorobromomethane			50.0	52.2		ug/L		104	77 - 129	7	20
Ethylbenzene			50.0	49.5		ug/L		99	80 - 120	5	20
Methylene Chloride			50.0	55.3		ug/L		111	76 - 129	3	20
Styrene			50.0	50.2		ug/L		100	80 - 122	7	20
Tetrachloroethene			50.0	50.1		ug/L		100	77 - 123	3	20
Toluene			50.0	50.1		ug/L		100	80 - 122	5	20
trans-1,2-Dichloroethene			50.0	51.6		ug/L		103	78 - 123	4	20
trans-1,3-Dichloropropene			50.0	52.7		ug/L		105	74 - 140	7	20
Trichloroethene			50.0	50.3		ug/L		101	80 - 123	4	20
Vinyl chloride			50.0	46.7		ug/L		93	68 - 132	8	30
Xylenes, Total			100	101		ug/L		101	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-393418/9
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/28/15 10:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/28/15 10:44	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/28/15 10:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/28/15 10:44	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/28/15 10:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/28/15 10:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/28/15 10:44	1
2-Butanone (MEK)	<10		10		ug/L			07/28/15 10:44	1
2-Hexanone	<10		10		ug/L			07/28/15 10:44	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/28/15 10:44	1
Acetone	<10		10		ug/L			07/28/15 10:44	1
Benzene	<1.0		1.0		ug/L			07/28/15 10:44	1
Bromoform	<1.0		1.0		ug/L			07/28/15 10:44	1
Bromomethane	<5.0		5.0		ug/L			07/28/15 10:44	1
Carbon disulfide	<2.0		2.0		ug/L			07/28/15 10:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/28/15 10:44	1
Chlorobenzene	<1.0		1.0		ug/L			07/28/15 10:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/28/15 10:44	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-393418/9
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			07/28/15 10:44	1
Chloroform	<1.0		1.0		ug/L			07/28/15 10:44	1
Chloromethane	<1.0		1.0		ug/L			07/28/15 10:44	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/28/15 10:44	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/28/15 10:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/28/15 10:44	1
Ethylbenzene	<1.0		1.0		ug/L			07/28/15 10:44	1
Methylene Chloride	<5.0		5.0		ug/L			07/28/15 10:44	1
Styrene	<1.0		1.0		ug/L			07/28/15 10:44	1
Tetrachloroethene	<1.0		1.0		ug/L			07/28/15 10:44	1
Toluene	<1.0		1.0		ug/L			07/28/15 10:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/28/15 10:44	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/28/15 10:44	1
Trichloroethene	<1.0		1.0		ug/L			07/28/15 10:44	1
Vinyl chloride	<1.0		1.0		ug/L			07/28/15 10:44	1
Xylenes, Total	<1.0		1.0		ug/L			07/28/15 10:44	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*70 - 130*		*07/28/15 10:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*07/28/15 10:44*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*07/28/15 10:44*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/28/15 10:44*	*1*

Lab Sample ID: LCS 680-393418/4
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	74 - 128
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	72 - 128
1,1,2-Trichloroethane	50.0	49.3		ug/L		99	79 - 125
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	49.1		ug/L		98	74 - 125
1,2-Dichloroethane	50.0	49.5		ug/L		99	75 - 130
1,2-Dichloropropane	50.0	48.7		ug/L		97	80 - 123
2-Butanone (MEK)	250	236		ug/L		94	75 - 133
2-Hexanone	250	256		ug/L		102	70 - 141
4-Methyl-2-pentanone (MIBK)	250	250		ug/L		100	75 - 135
Acetone	250	234		ug/L		93	60 - 154
Benzene	50.0	50.1		ug/L		100	73 - 131
Bromoform	50.0	50.5		ug/L		101	69 - 135
Bromomethane	50.0	58.4		ug/L		117	20 - 180
Carbon disulfide	50.0	51.8		ug/L		104	73 - 127
Carbon tetrachloride	50.0	50.1		ug/L		100	75 - 130
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120
Chlorodibromomethane	50.0	50.4		ug/L		101	71 - 136
Chloroethane	50.0	56.0		ug/L		112	50 - 151
Chloroform	50.0	48.8		ug/L		98	79 - 122

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-393418/4
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloromethane	50.0	41.6		ug/L		83	63 - 126
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	80 - 122
cis-1,3-Dichloropropene	50.0	51.5		ug/L		103	80 - 133
Dichlorobromomethane	50.0	51.0		ug/L		102	77 - 129
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	44.3		ug/L		89	76 - 129
Styrene	50.0	51.8		ug/L		104	80 - 122
Tetrachloroethene	50.0	49.5		ug/L		99	77 - 123
Toluene	50.0	50.6		ug/L		101	80 - 122
trans-1,2-Dichloroethene	50.0	49.9		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	74 - 140
Trichloroethene	50.0	48.6		ug/L		97	80 - 123
Vinyl chloride	50.0	51.0		ug/L		102	68 - 132
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Dibromofluoromethane (Surr)	*104*		*70 - 130*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*

Lab Sample ID: LCSD 680-393418/5
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	52.0		ug/L		104	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	51.7		ug/L		103	72 - 128	5	20
1,1,2-Trichloroethane	50.0	50.7		ug/L		101	79 - 125	3	20
1,1-Dichloroethane	50.0	50.3		ug/L		101	80 - 120	1	20
1,1-Dichloroethene	50.0	42.7		ug/L		85	74 - 125	14	20
1,2-Dichloroethane	50.0	52.8		ug/L		106	75 - 130	6	20
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 123	5	20
2-Butanone (MEK)	250	265		ug/L		106	75 - 133	12	30
2-Hexanone	250	262		ug/L		105	70 - 141	2	40
4-Methyl-2-pentanone (MIBK)	250	258		ug/L		103	75 - 135	3	30
Acetone	250	241		ug/L		96	60 - 154	3	40
Benzene	50.0	52.0		ug/L		104	73 - 131	4	30
Bromoform	50.0	53.7		ug/L		107	69 - 135	6	20
Bromomethane	50.0	60.9		ug/L		122	20 - 180	4	40
Carbon disulfide	50.0	48.6		ug/L		97	73 - 127	6	20
Carbon tetrachloride	50.0	49.8		ug/L		100	75 - 130	1	20
Chlorobenzene	50.0	50.2		ug/L		100	80 - 120	1	20
Chlorodibromomethane	50.0	52.7		ug/L		105	71 - 136	4	20
Chloroethane	50.0	44.7		ug/L		89	50 - 151	23	30
Chloroform	50.0	50.8		ug/L		102	79 - 122	4	20
Chloromethane	50.0	51.1		ug/L		102	63 - 126	20	30
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 122	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-393418/5
Matrix: Water
Analysis Batch: 393418

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 133	3	20
Dichlorobromomethane	50.0	53.1		ug/L		106	77 - 129	4	20
Ethylbenzene	50.0	50.8		ug/L		102	80 - 120	1	20
Methylene Chloride	50.0	55.7	*	ug/L		111	76 - 129	23	20
Styrene	50.0	52.4		ug/L		105	80 - 122	1	20
Tetrachloroethene	50.0	48.9		ug/L		98	77 - 123	1	20
Toluene	50.0	50.9		ug/L		102	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	49.6		ug/L		99	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	54.1		ug/L		108	74 - 140	2	20
Trichloroethene	50.0	50.6		ug/L		101	80 - 123	4	20
Vinyl chloride	50.0	41.6		ug/L		83	68 - 132	20	30
Xylenes, Total	100	103		ug/L		103	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*108*		*70 - 130*
Dibromofluoromethane (Surr)	*107*		*70 - 130*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-391941/29
Matrix: Water
Analysis Batch: 391941

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050		mg/L			07/16/15 18:12	1
Nitrite as N	<0.050		0.050		mg/L			07/16/15 18:12	1

Lab Sample ID: LCS 680-391941/30
Matrix: Water
Analysis Batch: 391941

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	1.00		mg/L		100	90 - 110
Nitrite as N	0.997	1.00		mg/L		101	90 - 110

Lab Sample ID: LCSD 680-391941/31
Matrix: Water
Analysis Batch: 391941

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	0.997		mg/L		100	90 - 110	0	30
Nitrite as N	0.997	1.01		mg/L		101	90 - 110	0	30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-114574-15 MS
Matrix: Water
Analysis Batch: 391941

Client Sample ID: MW-15C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	<0.050		0.999	1.02		mg/L		102	80 - 120
Nitrite as N	<0.050		0.997	1.03		mg/L		103	80 - 120

Lab Sample ID: 680-114574-15 MSD
Matrix: Water
Analysis Batch: 391941

Client Sample ID: MW-15C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	<0.050		0.999	1.03		mg/L		103	80 - 120	1	30
Nitrite as N	<0.050		0.997	1.04		mg/L		104	80 - 120	1	30

Lab Sample ID: MB 680-391942/2
Matrix: Water
Analysis Batch: 391942

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050		mg/L			07/17/15 10:24	1
Nitrite as N	<0.050		0.050		mg/L			07/17/15 10:24	1

Lab Sample ID: LCS 680-391942/3
Matrix: Water
Analysis Batch: 391942

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	0.999	0.994		mg/L		100	90 - 110
Nitrite as N	0.997	0.999		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-391942/4
Matrix: Water
Analysis Batch: 391942

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	0.995		mg/L		100	90 - 110	0	30
Nitrite as N	0.997	1.00		mg/L		100	90 - 110	0	30

Lab Sample ID: 680-114574-20 MS
Matrix: Water
Analysis Batch: 391942

Client Sample ID: MW-16C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N	2.9	E	0.999	4.14	E	mg/L		119	80 - 120
Nitrite as N	<0.050		0.997	1.02		mg/L		102	80 - 120

Lab Sample ID: 680-114574-20 MSD
Matrix: Water
Analysis Batch: 391942

Client Sample ID: MW-16C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	2.9	E	0.999	4.15	E	mg/L		120	80 - 120	0	30

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 680-114574-20 MSD
Matrix: Water
Analysis Batch: 391942

Client Sample ID: MW-16C
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrite as N	<0.050		0.997	1.02		mg/L		103	80 - 120	0	30

Lab Sample ID: MB 680-393149/2
Matrix: Water
Analysis Batch: 393149

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0		mg/L			07/25/15 10:29	1
Chloride	<0.50		0.50		mg/L			07/25/15 10:29	1

Lab Sample ID: LCS 680-393149/3
Matrix: Water
Analysis Batch: 393149

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	9.99		mg/L		100	90 - 110
Chloride	10.0	9.98		mg/L		100	90 - 110

Lab Sample ID: LCSD 680-393149/4
Matrix: Water
Analysis Batch: 393149

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.0		mg/L		100	90 - 110	0	30
Chloride	10.0	9.99		mg/L		100	90 - 110	0	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-392587/1-A
Matrix: Water
Analysis Batch: 393232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 392587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 09:11	07/25/15 20:22	1
Manganese	<5.0		5.0		ug/L		07/22/15 09:11	07/25/15 20:22	1

Lab Sample ID: LCS 680-392587/2-A
Matrix: Water
Analysis Batch: 393232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 392587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	5160		ug/L		103	75 - 125
Manganese	500	520		ug/L		104	75 - 125

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-392286/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1

Lab Sample ID: LCS 680-392286/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	208	170		mg/L		82	50 - 150

Lab Sample ID: 680-114574-13 MS — **Client Sample ID: MW-15A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	<10		208	165		mg/L		79	50 - 150

Lab Sample ID: 680-114574-13 MSD — **Client Sample ID: MW-15A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfide	<10		208	157		mg/L		76	50 - 150	5	50

Lab Sample ID: 680-114574-14 DU — **Client Sample ID: MW-15B**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfide	<10		<10		mg/L		NC	50

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 400-267128/29 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267128

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0		mg/L			07/28/15 05:08	1
TOC Result 1	<1.0		1.0		mg/L			07/28/15 05:08	1
TOC Result 2	<1.0		1.0		mg/L			07/28/15 05:08	1
TOC Result 3	<1.0		1.0		mg/L			07/28/15 05:08	1
TOC Result 4	<1.0		1.0		mg/L			07/28/15 05:08	1

Lab Sample ID: LCS 400-267128/30 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 267128

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.1		mg/L		101	80 - 120

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: LCS 400-267128/30
Matrix: Water
Analysis Batch: 267128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 1	10.0	10.2		mg/L		102	80 - 120
TOC Result 2	10.0	10.1		mg/L		101	80 - 120
TOC Result 3	10.0	10.1		mg/L		101	80 - 120
TOC Result 4	10.0	10.2		mg/L		102	80 - 120

Lab Sample ID: MRL 400-267128/2
Matrix: Water
Analysis Batch: 267128

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.00	1.10		mg/L		110	50 - 150
TOC Result 1	1.00	1.12		mg/L		112	50 - 150
TOC Result 2	1.00	1.09		mg/L		109	50 - 150

Lab Sample ID: 680-114574-13 MS
Matrix: Water
Analysis Batch: 267128

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	<1.0		5.00	5.47		mg/L		99	76 - 117
TOC Result 1	<1.0		5.00	5.54		mg/L		100	76 - 117
TOC Result 2	<1.0		5.00	5.43		mg/L		98	76 - 117
TOC Result 3	<1.0		5.00	5.55		mg/L		101	76 - 117
TOC Result 4	<1.0		5.00	5.37		mg/L		107	76 - 117

Lab Sample ID: 680-114574-13 MSD
Matrix: Water
Analysis Batch: 267128

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	<1.0		5.00	5.44		mg/L		98	76 - 117	1	16
TOC Result 1	<1.0		5.00	5.52		mg/L		99	76 - 117	0	16
TOC Result 2	<1.0		5.00	5.48		mg/L		99	76 - 117	1	16
TOC Result 3	<1.0		5.00	5.39		mg/L		98	76 - 117	3	16
TOC Result 4	<1.0		5.00	5.36		mg/L		107	76 - 117	0	16

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-391873/2
Matrix: Water
Analysis Batch: 391873

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.10		0.10		mg/L			07/16/15 17:21	1

Method: SM 3500 FE D - Iron, Ferrous (Continued)

Lab Sample ID: LCS 680-391873/1
Matrix: Water
Analysis Batch: 391873

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron			2.00	2.01		mg/L		101	80 - 120		

Lab Sample ID: 680-114574-13 MS
Matrix: Water
Analysis Batch: 391873

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ferrous Iron	<0.10	HF	2.00	1.94		mg/L		97	80 - 120		

Lab Sample ID: 680-114574-13 MSD
Matrix: Water
Analysis Batch: 391873

Client Sample ID: MW-15A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Ferrous Iron	<0.10	HF	2.00	1.93		mg/L		96	80 - 120	0	20

GC/MS VOA

Analysis Batch: 392898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-1	MW-5C	Total/NA	Water	8260B	
680-114574-2	MW-8A	Total/NA	Water	8260B	
680-114574-3	MW-13C	Total/NA	Water	8260B	
680-114574-4	MW-10A	Total/NA	Water	8260B	
680-114574-5	MW-13B	Total/NA	Water	8260B	
680-114574-6	MW-17A	Total/NA	Water	8260B	
680-114574-7	MW-8B	Total/NA	Water	8260B	
680-114574-8	MW-9A	Total/NA	Water	8260B	
680-114574-9	MW-19C	Total/NA	Water	8260B	
680-114574-10	MW-19B	Total/NA	Water	8260B	
680-114574-11	MW-19D	Total/NA	Water	8260B	
680-114574-12	Dup-1	Total/NA	Water	8260B	
680-114574-14	MW-15B	Total/NA	Water	8260B	
680-114574-15	MW-15C	Total/NA	Water	8260B	
680-114574-16	MW-13A	Total/NA	Water	8260B	
680-114574-17	MW-5B	Total/NA	Water	8260B	
680-114574-18	MW-16A	Total/NA	Water	8260B	
680-114574-19	MW-16B	Total/NA	Water	8260B	
680-114574-20	MW-16C	Total/NA	Water	8260B	
LCS 680-392898/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-392898/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-392898/8	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 393225

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-4 - DL	MW-10A	Total/NA	Water	8260B	
680-114574-5 - DL	MW-13B	Total/NA	Water	8260B	
680-114574-8 - DL	MW-9A	Total/NA	Water	8260B	
680-114574-10 - DL	MW-19B	Total/NA	Water	8260B	
680-114574-12 - DL	Dup-1	Total/NA	Water	8260B	
680-114574-13	MW-15A	Total/NA	Water	8260B	
680-114574-16 - DL	MW-13A	Total/NA	Water	8260B	
680-114574-17 - DL	MW-5B	Total/NA	Water	8260B	
680-114574-18 - DL	MW-16A	Total/NA	Water	8260B	
680-114574-19 - DL	MW-16B	Total/NA	Water	8260B	
680-114574-20 - DL	MW-16C	Total/NA	Water	8260B	
LCS 680-393225/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-393225/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-393225/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 393238

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-22	Trip Blank	Total/NA	Water	8260B	
LCS 680-393238/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-393238/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-393238/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 393418

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-21	Dup-2	Total/NA	Water	8260B	
LCS 680-393418/4	Lab Control Sample	Total/NA	Water	8260B	

GC/MS VOA (Continued)

Analysis Batch: 393418 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 680-393418/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-393418/9	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 391941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	300.0	
680-114574-14	MW-15B	Total/NA	Water	300.0	
680-114574-15	MW-15C	Total/NA	Water	300.0	
680-114574-15 MS	MW-15C	Total/NA	Water	300.0	
680-114574-15 MSD	MW-15C	Total/NA	Water	300.0	
680-114574-17	MW-5B	Total/NA	Water	300.0	
680-114574-18	MW-16A	Total/NA	Water	300.0	
680-114574-19	MW-16B	Total/NA	Water	300.0	
680-114574-20	MW-16C	Total/NA	Water	300.0	
LCS 680-391941/30	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-391941/31	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-391941/29	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 391942

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	300.0	
680-114574-14	MW-15B	Total/NA	Water	300.0	
680-114574-14	MW-15B	Total/NA	Water	300.0	
680-114574-19	MW-16B	Total/NA	Water	300.0	
680-114574-20	MW-16C	Total/NA	Water	300.0	
680-114574-20 MS	MW-16C	Total/NA	Water	300.0	
680-114574-20 MSD	MW-16C	Total/NA	Water	300.0	
LCS 680-391942/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-391942/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-391942/2	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 393149

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	300.0	
680-114574-14	MW-15B	Total/NA	Water	300.0	
680-114574-15	MW-15C	Total/NA	Water	300.0	
680-114574-17	MW-5B	Total/NA	Water	300.0	
680-114574-18	MW-16A	Total/NA	Water	300.0	
680-114574-19	MW-16B	Total/NA	Water	300.0	
680-114574-20	MW-16C	Total/NA	Water	300.0	
LCS 680-393149/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-393149/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-393149/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 392587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Dissolved	Water	3005A	
680-114574-13	MW-15A	Total Recoverable	Water	3005A	
680-114574-14	MW-15B	Dissolved	Water	3005A	
680-114574-14	MW-15B	Total Recoverable	Water	3005A	
680-114574-15	MW-15C	Dissolved	Water	3005A	
680-114574-15	MW-15C	Total Recoverable	Water	3005A	
680-114574-17	MW-5B	Dissolved	Water	3005A	
680-114574-17	MW-5B	Total Recoverable	Water	3005A	
680-114574-18	MW-16A	Dissolved	Water	3005A	
680-114574-18	MW-16A	Total Recoverable	Water	3005A	
680-114574-19	MW-16B	Dissolved	Water	3005A	
680-114574-19	MW-16B	Total Recoverable	Water	3005A	
680-114574-20	MW-16C	Dissolved	Water	3005A	
680-114574-20	MW-16C	Total Recoverable	Water	3005A	
LCS 680-392587/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-392587/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 393232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Dissolved	Water	6020A	392587
680-114574-13	MW-15A	Total Recoverable	Water	6020A	392587
680-114574-14	MW-15B	Dissolved	Water	6020A	392587
680-114574-14	MW-15B	Total Recoverable	Water	6020A	392587
680-114574-15	MW-15C	Dissolved	Water	6020A	392587
680-114574-15	MW-15C	Total Recoverable	Water	6020A	392587
680-114574-17	MW-5B	Dissolved	Water	6020A	392587
680-114574-17	MW-5B	Total Recoverable	Water	6020A	392587
680-114574-18	MW-16A	Dissolved	Water	6020A	392587
680-114574-18	MW-16A	Total Recoverable	Water	6020A	392587
680-114574-19	MW-16B	Dissolved	Water	6020A	392587
680-114574-19	MW-16B	Total Recoverable	Water	6020A	392587
680-114574-20	MW-16C	Dissolved	Water	6020A	392587
680-114574-20	MW-16C	Total Recoverable	Water	6020A	392587
LCS 680-392587/2-A	Lab Control Sample	Total Recoverable	Water	6020A	392587
MB 680-392587/1-A	Method Blank	Total Recoverable	Water	6020A	392587

General Chemistry

Analysis Batch: 267128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	9060A	
680-114574-13 MS	MW-15A	Total/NA	Water	9060A	
680-114574-13 MSD	MW-15A	Total/NA	Water	9060A	
680-114574-14	MW-15B	Total/NA	Water	9060A	
680-114574-15	MW-15C	Total/NA	Water	9060A	
680-114574-17	MW-5B	Total/NA	Water	9060A	
680-114574-18	MW-16A	Total/NA	Water	9060A	
680-114574-19	MW-16B	Total/NA	Water	9060A	
680-114574-20	MW-16C	Total/NA	Water	9060A	
LCS 400-267128/30	Lab Control Sample	Total/NA	Water	9060A	

General Chemistry (Continued)

Analysis Batch: 267128 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 400-267128/29	Method Blank	Total/NA	Water	9060A	
MRL 400-267128/2	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 391873

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	SM 3500 FE D	
680-114574-13 MS	MW-15A	Total/NA	Water	SM 3500 FE D	
680-114574-13 MSD	MW-15A	Total/NA	Water	SM 3500 FE D	
680-114574-14	MW-15B	Total/NA	Water	SM 3500 FE D	
680-114574-15	MW-15C	Total/NA	Water	SM 3500 FE D	
680-114574-17	MW-5B	Total/NA	Water	SM 3500 FE D	
680-114574-18	MW-16A	Total/NA	Water	SM 3500 FE D	
680-114574-19	MW-16B	Total/NA	Water	SM 3500 FE D	
680-114574-20	MW-16C	Total/NA	Water	SM 3500 FE D	
LCS 680-391873/1	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
MB 680-391873/2	Method Blank	Total/NA	Water	SM 3500 FE D	

Prep Batch: 392286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	9030B	
680-114574-13 MS	MW-15A	Total/NA	Water	9030B	
680-114574-13 MSD	MW-15A	Total/NA	Water	9030B	
680-114574-14	MW-15B	Total/NA	Water	9030B	
680-114574-14 DU	MW-15B	Total/NA	Water	9030B	
680-114574-15	MW-15C	Total/NA	Water	9030B	
680-114574-17	MW-5B	Total/NA	Water	9030B	
680-114574-18	MW-16A	Total/NA	Water	9030B	
680-114574-19	MW-16B	Total/NA	Water	9030B	
680-114574-20	MW-16C	Total/NA	Water	9030B	
LCS 680-392286/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 680-392286/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 392309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114574-13	MW-15A	Total/NA	Water	9034	392286
680-114574-13 MS	MW-15A	Total/NA	Water	9034	392286
680-114574-13 MSD	MW-15A	Total/NA	Water	9034	392286
680-114574-14	MW-15B	Total/NA	Water	9034	392286
680-114574-14 DU	MW-15B	Total/NA	Water	9034	392286
680-114574-15	MW-15C	Total/NA	Water	9034	392286
680-114574-17	MW-5B	Total/NA	Water	9034	392286
680-114574-18	MW-16A	Total/NA	Water	9034	392286
680-114574-19	MW-16B	Total/NA	Water	9034	392286
680-114574-20	MW-16C	Total/NA	Water	9034	392286
LCS 680-392286/2-A	Lab Control Sample	Total/NA	Water	9034	392286
MB 680-392286/1-A	Method Blank	Total/NA	Water	9034	392286

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-5C
Date Collected: 07/14/15 09:16
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 14:02	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-8A
Date Collected: 07/14/15 09:16
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 14:24	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-13C
Date Collected: 07/14/15 10:32
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 15:25	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-10A
Date Collected: 07/14/15 10:34
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 15:47	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	393225	07/26/15 20:03	RWB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-13B
Date Collected: 07/14/15 11:25
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-5
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 16:08	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	393225	07/26/15 20:24	RWB	TAL SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-17A
Date Collected: 07/14/15 11:44
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	392898	07/23/15 16:30	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-8B
Date Collected: 07/14/15 12:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	392898	07/23/15 16:52	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-9A
Date Collected: 07/14/15 13:21
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 17:14	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	393225	07/26/15 20:45	RWB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-19C
Date Collected: 07/14/15 14:22
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-9
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 17:36	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: MW-19B
Date Collected: 07/14/15 15:15
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-10
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 17:57	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	393225	07/26/15 21:06	RWB	TAL SAV
	Instrument ID: CMSO2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-19D

Date Collected: 07/14/15 16:09
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 18:19	DJK	TAL SAV
	Instrument ID: CMSB									

Client Sample ID: Dup-1

Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 18:41	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	393225	07/26/15 21:28	RWB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-15A

Date Collected: 07/15/15 12:13
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	393225	07/26/15 21:49	RWB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391941	07/16/15 20:46	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		2	5 mL	5 mL	391942	07/17/15 11:41	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 15:48	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:32	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:37	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 06:24	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-15B

Date Collected: 07/15/15 10:39
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 19:26	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	300.0		2	5 mL	5 mL	391941	07/16/15 21:02	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		4	5 mL	5 mL	391942	07/17/15 11:56	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391942	07/17/15 12:11	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 16:03	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:42	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:47	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 07:41	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: MW-15C

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 19:48	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391941	07/16/15 18:58	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 16:19	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:52	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 20:57	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-15C

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9060A		1			267128	07/28/15 08:08	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: MW-13A

Date Collected: 07/15/15 14:09
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 20:09	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	20	5 mL	5 mL	393225	07/26/15 22:10	RWB	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: MW-5B

Date Collected: 07/15/15 12:19
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 20:31	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	393225	07/26/15 22:31	RWB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391941	07/16/15 19:45	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 16:34	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:02	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:07	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 08:30	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: MW-16A

Date Collected: 07/15/15 10:22
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 20:53	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	393225	07/26/15 22:52	RWB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391941	07/16/15 20:00	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 16:49	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:22	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:27	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 09:00	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: MW-16B

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 21:14	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	393225	07/26/15 23:13	RWB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	300.0		2	5 mL	5 mL	391941	07/16/15 20:15	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391942	07/17/15 12:27	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 17:05	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:32	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:37	BWR	TAL SAV
	Instrument ID: ICPMSC									

Client Sample ID: MW-16B

Date Collected: 07/15/15 08:54
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-19

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 09:32	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: MW-16C

Date Collected: 07/15/15 14:33
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-20

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392898	07/23/15 21:36	DJK	TAL SAV
	Instrument ID: CMSB									
Total/NA	Analysis	8260B	DL	10	5 mL	5 mL	393225	07/26/15 23:35	RWB	TAL SAV
	Instrument ID: CMSO2									
Total/NA	Analysis	300.0		2	5 mL	5 mL	391941	07/16/15 20:31	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	391942	07/17/15 12:42	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		1	5 mL	5 mL	393149	07/25/15 17:20	AJO	TAL SAV
	Instrument ID: CICH									
Dissolved	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:42	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392587	07/22/15 09:11	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 21:47	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			267128	07/28/15 09:59	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		1	2 mL	2 mL	391873	07/16/15 17:21	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: Dup-2

Date Collected: 07/15/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-21

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	393418	07/28/15 11:41	CEJ	TAL SAV

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Client Sample ID: Dup-2

Date Collected: 07/15/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-21
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	393418	07/28/15 11:41	CEJ	TAL SAV
	Instrument ID: CMSO2									

Client Sample ID: Trip Blank

Date Collected: 07/14/15 00:00
Date Received: 07/16/15 09:46

Lab Sample ID: 680-114574-22
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	393238	07/27/15 14:49	CEJ	TAL SAV
	Instrument ID: CMSO2									

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 82089

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Alterman	C00342-2015-301	GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Michelle Staygrook	(912) 807-1494	(877)293-6642
CLIENT NAME	CLIENT E-MAIL	
EHS Support LLC	Michelle.staygrook@ehs-support.com	
CLIENT ADDRESS		
4694 Concord Rd, PMB 104, Hilliard, OH 43026-1124		
COMPANY CONTRACTING THIS WORK (if applicable)		
Antea Group		

PAGE 1 OF 2

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: 8260C	REQUIRED ANALYSIS: HCL PRESERVATIVE	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/14/15	0916	MW-5C	G	✓						3	
7/14/15	0916	MW-8A	G	✓						3	
7/14/15	1032	MW-13C	G	✓						3	
7/14/15	1034	MW-10A	G	✓						3	
7/14/15	1125	MW-13B	G	✓						3	
7/14/15	1144	MW-17A	G	✓						3	
7/14/15	1233	MW-8B	G	✓						3	
7/14/15	1321	MW-9A	G	✓						3	
7/14/15	1422	MW-19C	G	✓						3	
7/14/15	1515	MW-19B	G	✓						3	
7/14/15	1689	MW-19D	G	✓						3	
7/14/15	0000	DUP-1	G	✓						3	

680-114574 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7/15/15	16:48		7/15/15	18:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7/15/15	16:48						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	7/16/15	09:46	YES ◯ NO ◯		680-114574	2.8° C / 3.3° C

Page 1 of 2

7/28/2015

TAL8240-680 (1008)

Serial Number 82085

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO.
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
CLIENT NAME	CLIENT E-MAIL	
CLIENT ADDRESS		
COMPANY CONTRACTING THIS WORK (if applicable)		

MATRIX TYPE — COMPOSITE (C) OR GRAB (G) INDICATE; AQUEOUS (WATER); SOLID OR SEMISOLID; AIR; NONAQUEOUS LIQUID (OIL, SOLVENT, ...)

REQUIRED ANALYSIS — NaOH + ZnAc + Sulfide 9034; 6020A Ni; 6020A Pb; 300.0 OR 9056 Fluoride, Sulfate; 350.1 OR 4120 COD Ferrous, Low; 8260B; 9060A; PRESERVATIVE: NaOH, HNO3, None, None, None, HCl, H2SO4

PAGE 2 OF 2

STANDARD REPORT DELIVERY ◯
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ◯
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS SUBMITTED	REMARKS
7/15/15	1213	MW-15A	2 2 1 1 1 3 3	
7/15/15	1039	MW-15B	2 2 1 1 1 3 3	
7/15/15	0854	MW-15C	2 2 1 1 1 3 3	
7/15/15	1409	MW-13A	3	
7/15/15	1219	MW-5B	2 2 1 1 1 3 3	
7/15/15	1022	MW-16A	2 2 1 1 1 3 3	
7/15/15	0854	MW-16B	2 2 1 1 1 3 3	
7/15/15	1433	~~MW-16B~~ MW-16C	2 2 1 1 1 3 3	
7/15/15	0000	Dup-2	BO 7-17 BO 7-17 BO 7-17 BO 7-17 BO 7-17 3 BO 7-17	
		Trip Blank	3 BO 7-17	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7/15	16:45		7/15/15	18:00			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7/15/15	16:48						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
M. Lutchlighter	7/16/15	09:46	YES ◯ NO ◯		680-114574	2.8/3.3 °C

TAL8240-680 (1008)

Page 72 of 75

7/28/2015

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114574-1

Login Number: 114574
List Number: 1
Creator: Kicklighter, Marilyn D

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	line # 20 has the full set coc reads just voc
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114574-1

Login Number: 114574
List Number: 2
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 07/18/15 12:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114574-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-16

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	08-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-15
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	09-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-114593-1
Client Project/Site: Ashland Alterman

For:
EHS Support, LLC
4694 Cemetary Rd, PMB 104
Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Authorized for release by:
7/27/2015 5:33:52 PM

Jerry Lanier, Project Manager I
(912)354-7858 e.3410
jerry.lanier@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Case Narrative 3
Sample Summary 5
Method Summary 6
Definitions 7
Detection Summary 8
Client Sample Results 9
Surrogate Summary 16
QC Sample Results 17
QC Association 29
Chronicle 31
Chain of Custody 33
Receipt Checklists 34
Certification Summary 36

Job ID: 680-114593-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman

Report Number: 680-114593-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 07/17/2015; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.5 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples MW-11A (680-114593-1), OF-2 (680-114593-2), SS-1 (680-114593-3), SS-2 (680-114593-4), Field Blank (680-114593-5) and Trip Blank (680-114593-6) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 07/21/2015, 07/22/2015 and 07/23/2015.

The following analyte recovered outside control limits for the LCSD associated with analytical batch 680-392562: Carbon tetrachloride. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

Sample MW-11A (680-114593-1)[2X] required dilution prior to analysis due to color. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-392393, 680-392562, and 680-392752.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)
Sample MW-11A (680-114593-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Methods 6020A. The samples were prepared on 07/22/2015 and analyzed on 07/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

METALS (ICPMS)
Sample MW-11A (680-114593-1) was analyzed for metals (ICPMS) in accordance with EPA SW-846 Method 6020A. The samples were prepared on 07/22/2015 and analyzed on 07/25/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (28 DAY)
Sample MW-11A (680-114593-1) was analyzed for Anions by Ion Chromatography (28 Day) in accordance with EPA Method 300.0. The samples were analyzed on 07/22/2015.

The following sample MW-11A (680-114593-1) was quenched with ascorbic acid to remove the potassium permanganate in order to

Job ID: 680-114593-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

analyze the samples by Ion Chromatography. Sample was also diluted due to matrix. Elevated RLs are provided.

Sample MW-11A (680-114593-1)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

ANIONS BY ION CHROMATOGRAPHY (48 HOUR)

Sample MW-11A (680-114593-1) was analyzed for Anions by Ion Chromatography (48 Hour) in accordance with EPA Method 300.0. The samples were analyzed on 07/17/2015.

The following sample MW-11A (680-114593-1) was quenched with ascorbic acid to remove the potassium permanganate in order to analyze the samples by Ion Chromatography. Sample was also diluted due to matrix. Elevated RLs are provided.

Sample MW-11A (680-114593-1)[25X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

FERROUS IRON

Sample MW-11A (680-114593-1) was analyzed for ferrous iron in accordance with SM 3500-Fe-D. The samples were analyzed on 07/17/2015.

This analysis is normally performed in the field and has a method-defined holding time of 15 minutes. This sample(s) was performed in the laboratory outside the 15 minute timeframe.

Sample MW-11A (680-114593-1)[50X] required dilution prior to analysis due to sample color. The reporting limits have been adjusted accordingly.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

SULFIDE

Sample MW-11A (680-114593-1) was analyzed for sulfide in accordance with EPA SW-846 Method 9034. The samples were prepared and analyzed on 07/20/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

TOTAL ORGANIC CARBON

Sample MW-11A (680-114593-1) was analyzed for total organic carbon in accordance with EPA SW-846 Method 9060A. The samples were analyzed on 07/22/2015.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-114593-1	MW-11A	Water	07/16/15 09:36	07/17/15 09:45
680-114593-2	OF-2	Water	07/16/15 10:30	07/17/15 09:45
680-114593-3	SS-1	Water	07/16/15 12:26	07/17/15 09:45
680-114593-4	SS-2	Water	07/16/15 13:02	07/17/15 09:45
680-114593-5	Field Blank	Water	07/16/15 13:30	07/17/15 09:45
680-114593-6	Trip Blank	Water	07/16/15 09:00	07/17/15 09:45

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
300.0	Anions, Ion Chromatography	MCAWW	TAL SAV
6020A	Metals (ICP/MS)	SW846	TAL SAV
9034	Sulfide, Acid Soluble and Insoluble (Titrimetric)	SW846	TAL SAV
9060A	Organic Carbon, Total (TOC)	SW846	TAL PEN
SM 3500 FE D	Iron, Ferrous	SM	TAL SAV

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.
SM = "Standard Methods For The Examination Of Water And Wastewater",
SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001
TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
HF	Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Client Sample ID: MW-11A — Lab Sample ID: 680-114593-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2.7		2.0		ug/L	2		8260B	Total/NA
Manganese	11000		5.0		ug/L	1		6020A	Total Recoverable
Manganese	11000		5.0		ug/L	1		6020A	Dissolved
Total Organic Carbon	1.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 1	1.3		1.0		mg/L	1		9060A	Total/NA
TOC Result 2	1.1		1.0		mg/L	1		9060A	Total/NA
TOC Result 3	1.1		1.0		mg/L	1		9060A	Total/NA

Client Sample ID: OF-2 — Lab Sample ID: 680-114593-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	76		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	12		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-1 — Lab Sample ID: 680-114593-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.3		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	36		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-2 — Lab Sample ID: 680-114593-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	17		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Field Blank — Lab Sample ID: 680-114593-5

No Detections.

Client Sample ID: Trip Blank — Lab Sample ID: 680-114593-6

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-11A
Date Collected: 07/16/15 09:36
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-1
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L			07/23/15 13:39	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			07/23/15 13:39	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			07/23/15 13:39	2
1,1-Dichloroethane	<2.0		2.0		ug/L			07/23/15 13:39	2
1,1-Dichloroethene	<2.0		2.0		ug/L			07/23/15 13:39	2
1,2-Dichloroethane	<2.0		2.0		ug/L			07/23/15 13:39	2
1,2-Dichloropropane	<2.0		2.0		ug/L			07/23/15 13:39	2
2-Butanone (MEK)	<20		20		ug/L			07/23/15 13:39	2
2-Hexanone	<20		20		ug/L			07/23/15 13:39	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			07/23/15 13:39	2
Acetone	<20		20		ug/L			07/23/15 13:39	2
Benzene	<2.0		2.0		ug/L			07/23/15 13:39	2
Bromoform	<2.0		2.0		ug/L			07/23/15 13:39	2
Bromomethane	<10		10		ug/L			07/23/15 13:39	2
Carbon disulfide	<4.0		4.0		ug/L			07/23/15 13:39	2
Carbon tetrachloride	<2.0		2.0		ug/L			07/23/15 13:39	2
Chlorobenzene	<2.0		2.0		ug/L			07/23/15 13:39	2
Chlorodibromomethane	<2.0		2.0		ug/L			07/23/15 13:39	2
Chloroethane	<10		10		ug/L			07/23/15 13:39	2
Chloroform	<2.0		2.0		ug/L			07/23/15 13:39	2
Chloromethane	<2.0		2.0		ug/L			07/23/15 13:39	2
cis-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 13:39	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 13:39	2
Dichlorobromomethane	<2.0		2.0		ug/L			07/23/15 13:39	2
Ethylbenzene	<2.0		2.0		ug/L			07/23/15 13:39	2
Methylene Chloride	<10		10		ug/L			07/23/15 13:39	2
Styrene	<2.0		2.0		ug/L			07/23/15 13:39	2
Tetrachloroethene	**2.7**		2.0		ug/L			07/23/15 13:39	2
Toluene	<2.0		2.0		ug/L			07/23/15 13:39	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			07/23/15 13:39	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			07/23/15 13:39	2
Trichloroethene	<2.0		2.0		ug/L			07/23/15 13:39	2
Vinyl chloride	<2.0		2.0		ug/L			07/23/15 13:39	2
Xylenes, Total	<2.0		2.0		ug/L			07/23/15 13:39	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*07/23/15 13:39*	*2*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 130*		*07/23/15 13:39*	*2*
Dibromofluoromethane (Surr)	*94*		*70 - 130*		*07/23/15 13:39*	*2*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/23/15 13:39*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<1.3		1.3		mg/L			07/17/15 22:28	25
Sulfate	<25		25		mg/L			07/22/15 16:40	25
Chloride	<13		13		mg/L			07/22/15 16:40	25
Nitrite as N	<1.3		1.3		mg/L			07/17/15 22:28	25

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Client Sample ID: MW-11A

Date Collected: 07/16/15 09:36
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-1

Matrix: Water

Method: 6020A - Metals (ICP/MS) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 10:16	07/25/15 13:21	1
Manganese	**11000**		5.0		ug/L		07/22/15 10:16	07/25/15 13:21	1

Method: 6020A - Metals (ICP/MS) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 10:16	07/25/15 13:36	1
Manganese	**11000**		5.0		ug/L		07/22/15 10:16	07/25/15 13:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1
Total Organic Carbon	**1.1**		1.0		mg/L			07/22/15 04:35	1
TOC Result 1	**1.3**		1.0		mg/L			07/22/15 04:35	1
TOC Result 2	**1.1**		1.0		mg/L			07/22/15 04:35	1
TOC Result 3	**1.1**		1.0		mg/L			07/22/15 04:35	1
TOC Result 4	<1.0		1.0		mg/L			07/22/15 04:35	1
Ferrous Iron	<5.0	HF	5.0		mg/L			07/17/15 13:00	50

Client Sample ID: OF-2

Date Collected: 07/16/15 10:30
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-2

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/22/15 14:03	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/22/15 14:03	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/22/15 14:03	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/22/15 14:03	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/22/15 14:03	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/22/15 14:03	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/22/15 14:03	1
2-Butanone (MEK)	<10		10		ug/L			07/22/15 14:03	1
2-Hexanone	<10		10		ug/L			07/22/15 14:03	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/22/15 14:03	1
Acetone	<10		10		ug/L			07/22/15 14:03	1
Benzene	<1.0		1.0		ug/L			07/22/15 14:03	1
Bromoform	<1.0		1.0		ug/L			07/22/15 14:03	1
Bromomethane	<5.0		5.0		ug/L			07/22/15 14:03	1
Carbon disulfide	<2.0		2.0		ug/L			07/22/15 14:03	1
Carbon tetrachloride	<1.0	*	1.0		ug/L			07/22/15 14:03	1
Chlorobenzene	<1.0		1.0		ug/L			07/22/15 14:03	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/22/15 14:03	1
Chloroethane	<5.0		5.0		ug/L			07/22/15 14:03	1
Chloroform	<1.0		1.0		ug/L			07/22/15 14:03	1
Chloromethane	<1.0		1.0		ug/L			07/22/15 14:03	1
cis-1,2-Dichloroethene	**5.9**		1.0		ug/L			07/22/15 14:03	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 14:03	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/22/15 14:03	1
Ethylbenzene	<1.0		1.0		ug/L			07/22/15 14:03	1
Methylene Chloride	<5.0		5.0		ug/L			07/22/15 14:03	1

Client Sample ID: OF-2

Lab Sample ID: 680-114593-2

Date Collected: 07/16/15 10:30

Matrix: Water

Date Received: 07/17/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	<1.0		1.0		ug/L			07/22/15 14:03	1
Tetrachloroethene	**76**		1.0		ug/L			07/22/15 14:03	1
Toluene	<1.0		1.0		ug/L			07/22/15 14:03	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/22/15 14:03	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 14:03	1
Trichloroethene	**12**		1.0		ug/L			07/22/15 14:03	1
Vinyl chloride	<1.0		1.0		ug/L			07/22/15 14:03	1
Xylenes, Total	<1.0		1.0		ug/L			07/22/15 14:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*108*		*70 - 130*		*07/22/15 14:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/22/15 14:03*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/22/15 14:03*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/22/15 14:03*	*1*

Client Sample ID: SS-1

Lab Sample ID: 680-114593-3

Date Collected: 07/16/15 12:26

Matrix: Water

Date Received: 07/17/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/21/15 16:53	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/21/15 16:53	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/21/15 16:53	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/21/15 16:53	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/21/15 16:53	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/21/15 16:53	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/21/15 16:53	1
2-Butanone (MEK)	<10		10		ug/L			07/21/15 16:53	1
2-Hexanone	<10		10		ug/L			07/21/15 16:53	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/21/15 16:53	1
Acetone	<10		10		ug/L			07/21/15 16:53	1
Benzene	<1.0		1.0		ug/L			07/21/15 16:53	1
Bromoform	<1.0		1.0		ug/L			07/21/15 16:53	1
Bromomethane	<5.0		5.0		ug/L			07/21/15 16:53	1
Carbon disulfide	<2.0		2.0		ug/L			07/21/15 16:53	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/21/15 16:53	1
Chlorobenzene	<1.0		1.0		ug/L			07/21/15 16:53	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/21/15 16:53	1
Chloroethane	<5.0		5.0		ug/L			07/21/15 16:53	1
Chloroform	<1.0		1.0		ug/L			07/21/15 16:53	1
Chloromethane	<1.0		1.0		ug/L			07/21/15 16:53	1
cis-1,2-Dichloroethene	**2.3**		1.0		ug/L			07/21/15 16:53	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 16:53	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/21/15 16:53	1
Ethylbenzene	<1.0		1.0		ug/L			07/21/15 16:53	1
Methylene Chloride	<5.0		5.0		ug/L			07/21/15 16:53	1
Styrene	<1.0		1.0		ug/L			07/21/15 16:53	1
Tetrachloroethene	**36**		1.0		ug/L			07/21/15 16:53	1
Toluene	<1.0		1.0		ug/L			07/21/15 16:53	1

Client Sample ID: SS-1

Date Collected: 07/16/15 12:26
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 16:53	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 16:53	1
Trichloroethene	**2.7**		1.0		ug/L			07/21/15 16:53	1
Vinyl chloride	<1.0		1.0		ug/L			07/21/15 16:53	1
Xylenes, Total	<1.0		1.0		ug/L			07/21/15 16:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/21/15 16:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/21/15 16:53*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/21/15 16:53*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/21/15 16:53*	*1*

Client Sample ID: SS-2

Date Collected: 07/16/15 13:02
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-4
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/22/15 14:24	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/22/15 14:24	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/22/15 14:24	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/22/15 14:24	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/22/15 14:24	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/22/15 14:24	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/22/15 14:24	1
2-Butanone (MEK)	<10		10		ug/L			07/22/15 14:24	1
2-Hexanone	<10		10		ug/L			07/22/15 14:24	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/22/15 14:24	1
Acetone	<10		10		ug/L			07/22/15 14:24	1
Benzene	<1.0		1.0		ug/L			07/22/15 14:24	1
Bromoform	<1.0		1.0		ug/L			07/22/15 14:24	1
Bromomethane	<5.0		5.0		ug/L			07/22/15 14:24	1
Carbon disulfide	<2.0		2.0		ug/L			07/22/15 14:24	1
Carbon tetrachloride	<1.0	*	1.0		ug/L			07/22/15 14:24	1
Chlorobenzene	<1.0		1.0		ug/L			07/22/15 14:24	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/22/15 14:24	1
Chloroethane	<5.0		5.0		ug/L			07/22/15 14:24	1
Chloroform	<1.0		1.0		ug/L			07/22/15 14:24	1
Chloromethane	<1.0		1.0		ug/L			07/22/15 14:24	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/22/15 14:24	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 14:24	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/22/15 14:24	1
Ethylbenzene	<1.0		1.0		ug/L			07/22/15 14:24	1
Methylene Chloride	<5.0		5.0		ug/L			07/22/15 14:24	1
Styrene	<1.0		1.0		ug/L			07/22/15 14:24	1
Tetrachloroethene	**17**		1.0		ug/L			07/22/15 14:24	1
Toluene	<1.0		1.0		ug/L			07/22/15 14:24	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/22/15 14:24	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 14:24	1
Trichloroethene	<1.0		1.0		ug/L			07/22/15 14:24	1

Client Sample ID: SS-2

Lab Sample ID: 680-114593-4
Date Collected: 07/16/15 13:02
Matrix: Water
Date Received: 07/17/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	<1.0		1.0		ug/L			07/22/15 14:24	1
Xylenes, Total	<1.0		1.0		ug/L			07/22/15 14:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/22/15 14:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*07/22/15 14:24*	*1*
Dibromofluoromethane (Surr)	*106*		*70 - 130*		*07/22/15 14:24*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/22/15 14:24*	*1*

Client Sample ID: Field Blank

Lab Sample ID: 680-114593-5
Date Collected: 07/16/15 13:30
Matrix: Water
Date Received: 07/17/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:30	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/21/15 11:30	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:30	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:30	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:30	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:30	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/21/15 11:30	1
2-Butanone (MEK)	<10		10		ug/L			07/21/15 11:30	1
2-Hexanone	<10		10		ug/L			07/21/15 11:30	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/21/15 11:30	1
Acetone	<10		10		ug/L			07/21/15 11:30	1
Benzene	<1.0		1.0		ug/L			07/21/15 11:30	1
Bromoform	<1.0		1.0		ug/L			07/21/15 11:30	1
Bromomethane	<5.0		5.0		ug/L			07/21/15 11:30	1
Carbon disulfide	<2.0		2.0		ug/L			07/21/15 11:30	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/21/15 11:30	1
Chlorobenzene	<1.0		1.0		ug/L			07/21/15 11:30	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/21/15 11:30	1
Chloroethane	<5.0		5.0		ug/L			07/21/15 11:30	1
Chloroform	<1.0		1.0		ug/L			07/21/15 11:30	1
Chloromethane	<1.0		1.0		ug/L			07/21/15 11:30	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:30	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:30	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/21/15 11:30	1
Ethylbenzene	<1.0		1.0		ug/L			07/21/15 11:30	1
Methylene Chloride	<5.0		5.0		ug/L			07/21/15 11:30	1
Styrene	<1.0		1.0		ug/L			07/21/15 11:30	1
Tetrachloroethene	<1.0		1.0		ug/L			07/21/15 11:30	1
Toluene	<1.0		1.0		ug/L			07/21/15 11:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:30	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:30	1
Trichloroethene	<1.0		1.0		ug/L			07/21/15 11:30	1
Vinyl chloride	<1.0		1.0		ug/L			07/21/15 11:30	1
Xylenes, Total	<1.0		1.0		ug/L			07/21/15 11:30	1

Client Sample ID: Field Blank

Lab Sample ID: 680-114593-5
Matrix: Water
Date Collected: 07/16/15 13:30
Date Received: 07/17/15 09:45

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/21/15 11:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/21/15 11:30*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/21/15 11:30*	*1*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*07/21/15 11:30*	*1*

Client Sample ID: Trip Blank

Lab Sample ID: 680-114593-6
Matrix: Water
Date Collected: 07/16/15 09:00
Date Received: 07/17/15 09:45

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:51	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/21/15 11:51	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:51	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:51	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:51	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:51	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/21/15 11:51	1
2-Butanone (MEK)	<10		10		ug/L			07/21/15 11:51	1
2-Hexanone	<10		10		ug/L			07/21/15 11:51	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/21/15 11:51	1
Acetone	<10		10		ug/L			07/21/15 11:51	1
Benzene	<1.0		1.0		ug/L			07/21/15 11:51	1
Bromoform	<1.0		1.0		ug/L			07/21/15 11:51	1
Bromomethane	<5.0		5.0		ug/L			07/21/15 11:51	1
Carbon disulfide	<2.0		2.0		ug/L			07/21/15 11:51	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/21/15 11:51	1
Chlorobenzene	<1.0		1.0		ug/L			07/21/15 11:51	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/21/15 11:51	1
Chloroethane	<5.0		5.0		ug/L			07/21/15 11:51	1
Chloroform	<1.0		1.0		ug/L			07/21/15 11:51	1
Chloromethane	<1.0		1.0		ug/L			07/21/15 11:51	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:51	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:51	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/21/15 11:51	1
Ethylbenzene	<1.0		1.0		ug/L			07/21/15 11:51	1
Methylene Chloride	<5.0		5.0		ug/L			07/21/15 11:51	1
Styrene	<1.0		1.0		ug/L			07/21/15 11:51	1
Tetrachloroethene	<1.0		1.0		ug/L			07/21/15 11:51	1
Toluene	<1.0		1.0		ug/L			07/21/15 11:51	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:51	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:51	1
Trichloroethene	<1.0		1.0		ug/L			07/21/15 11:51	1
Vinyl chloride	<1.0		1.0		ug/L			07/21/15 11:51	1
Xylenes, Total	<1.0		1.0		ug/L			07/21/15 11:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/21/15 11:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*07/21/15 11:51*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*07/21/15 11:51*	*1*

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Client Sample ID: Trip Blank
Date Collected: 07/16/15 09:00
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	103		70 - 130		07/21/15 11:51	1

Surrogate Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-114593-1	MW-11A	100	93	94	101
680-114593-2	OF-2	108	97	103	103
680-114593-3	SS-1	105	99	104	101
680-114593-4	SS-2	105	99	106	103
680-114593-5	Field Blank	106	97	104	103
680-114593-6	Trip Blank	105	97	104	103
LCS 680-392393/4	Lab Control Sample	101	101	105	99
LCS 680-392562/4	Lab Control Sample	103	97	102	105
LCS 680-392752/4	Lab Control Sample	100	89	96	98
LCSD 680-392393/5	Lab Control Sample Dup	100	101	105	98
LCSD 680-392562/5	Lab Control Sample Dup	103	94	101	106
LCSD 680-392752/5	Lab Control Sample Dup	101	84	89	98
MB 680-392393/9	Method Blank	105	96	103	101
MB 680-392562/9	Method Blank	106	96	102	101
MB 680-392752/9	Method Blank	106	85	91	99

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-392393/9
Matrix: Water
Analysis Batch: 392393

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:07	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/21/15 11:07	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/21/15 11:07	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:07	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:07	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/21/15 11:07	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/21/15 11:07	1
2-Butanone (MEK)	<10		10		ug/L			07/21/15 11:07	1
2-Hexanone	<10		10		ug/L			07/21/15 11:07	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/21/15 11:07	1
Acetone	<10		10		ug/L			07/21/15 11:07	1
Benzene	<1.0		1.0		ug/L			07/21/15 11:07	1
Bromoform	<1.0		1.0		ug/L			07/21/15 11:07	1
Bromomethane	<5.0		5.0		ug/L			07/21/15 11:07	1
Carbon disulfide	<2.0		2.0		ug/L			07/21/15 11:07	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/21/15 11:07	1
Chlorobenzene	<1.0		1.0		ug/L			07/21/15 11:07	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/21/15 11:07	1
Chloroethane	<5.0		5.0		ug/L			07/21/15 11:07	1
Chloroform	<1.0		1.0		ug/L			07/21/15 11:07	1
Chloromethane	<1.0		1.0		ug/L			07/21/15 11:07	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:07	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:07	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/21/15 11:07	1
Ethylbenzene	<1.0		1.0		ug/L			07/21/15 11:07	1
Methylene Chloride	<5.0		5.0		ug/L			07/21/15 11:07	1
Styrene	<1.0		1.0		ug/L			07/21/15 11:07	1
Tetrachloroethene	<1.0		1.0		ug/L			07/21/15 11:07	1
Toluene	<1.0		1.0		ug/L			07/21/15 11:07	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/21/15 11:07	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/21/15 11:07	1
Trichloroethene	<1.0		1.0		ug/L			07/21/15 11:07	1
Vinyl chloride	<1.0		1.0		ug/L			07/21/15 11:07	1
Xylenes, Total	<1.0		1.0		ug/L			07/21/15 11:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*105*		*70 - 130*		*07/21/15 11:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*07/21/15 11:07*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*07/21/15 11:07*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/21/15 11:07*	*1*

Lab Sample ID: LCS 680-392393/4
Matrix: Water
Analysis Batch: 392393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	74 - 128
1,1,2,2-Tetrachloroethane	50.0	53.8		ug/L		108	72 - 128

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-392393/4
Matrix: Water
Analysis Batch: 392393

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloroethane	50.0	52.9		ug/L		106	79 - 125
1,1-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	49.6		ug/L		99	74 - 125
1,2-Dichloroethane	50.0	51.6		ug/L		103	75 - 130
1,2-Dichloropropane	50.0	52.3		ug/L		105	80 - 123
2-Butanone (MEK)	250	272		ug/L		109	75 - 133
2-Hexanone	250	259		ug/L		104	70 - 141
4-Methyl-2-pentanone (MIBK)	250	265		ug/L		106	75 - 135
Acetone	250	260		ug/L		104	60 - 154
Benzene	50.0	50.7		ug/L		101	73 - 131
Bromoform	50.0	64.3		ug/L		129	69 - 135
Bromomethane	50.0	66.4		ug/L		133	20 - 180
Carbon disulfide	50.0	49.0		ug/L		98	73 - 127
Carbon tetrachloride	50.0	62.6		ug/L		125	75 - 130
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120
Chlorodibromomethane	50.0	52.3		ug/L		105	71 - 136
Chloroethane	50.0	52.4		ug/L		105	50 - 151
Chloroform	50.0	52.6		ug/L		105	79 - 122
Chloromethane	50.0	51.2		ug/L		102	63 - 126
cis-1,2-Dichloroethene	50.0	46.5		ug/L		93	80 - 122
cis-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 133
Dichlorobromomethane	50.0	58.1		ug/L		116	77 - 129
Ethylbenzene	50.0	50.4		ug/L		101	80 - 120
Methylene Chloride	50.0	51.5		ug/L		103	76 - 129
Styrene	50.0	52.3		ug/L		105	80 - 122
Tetrachloroethene	50.0	49.5		ug/L		99	77 - 123
Toluene	50.0	49.7		ug/L		99	80 - 122
trans-1,2-Dichloroethene	50.0	50.0		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	56.5		ug/L		113	74 - 140
Trichloroethene	50.0	49.8		ug/L		100	80 - 123
Vinyl chloride	50.0	48.2		ug/L		96	68 - 132
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*

Lab Sample ID: LCSD 680-392393/5
Matrix: Water
Analysis Batch: 392393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.0		ug/L		108	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	53.5		ug/L		107	72 - 128	1	20
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	79 - 125	0	20
1,1-Dichloroethane	50.0	51.0		ug/L		102	80 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-392393/5
Matrix: Water
Analysis Batch: 392393

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethene	50.0	48.7		ug/L		97	74 - 125	2	20
1,2-Dichloroethane	50.0	52.3		ug/L		105	75 - 130	1	20
1,2-Dichloropropane	50.0	52.5		ug/L		105	80 - 123	0	20
2-Butanone (MEK)	250	265		ug/L		106	75 - 133	3	30
2-Hexanone	250	252		ug/L		101	70 - 141	3	40
4-Methyl-2-pentanone (MIBK)	250	257		ug/L		103	75 - 135	3	30
Acetone	250	245		ug/L		98	60 - 154	6	40
Benzene	50.0	50.7		ug/L		101	73 - 131	0	30
Bromoform	50.0	64.5		ug/L		129	69 - 135	0	20
Bromomethane	50.0	67.9		ug/L		136	20 - 180	2	40
Carbon disulfide	50.0	49.2		ug/L		98	73 - 127	1	20
Carbon tetrachloride	50.0	63.3		ug/L		127	75 - 130	1	20
Chlorobenzene	50.0	50.9		ug/L		102	80 - 120	1	20
Chlorodibromomethane	50.0	53.3		ug/L		107	71 - 136	2	20
Chloroethane	50.0	51.7		ug/L		103	50 - 151	1	30
Chloroform	50.0	52.8		ug/L		106	79 - 122	0	20
Chloromethane	50.0	50.8		ug/L		102	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	46.5		ug/L		93	80 - 122	0	20
cis-1,3-Dichloropropene	50.0	56.0		ug/L		112	80 - 133	0	20
Dichlorobromomethane	50.0	58.4		ug/L		117	77 - 129	0	20
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120	0	20
Methylene Chloride	50.0	52.0		ug/L		104	76 - 129	1	20
Styrene	50.0	52.6		ug/L		105	80 - 122	1	20
Tetrachloroethene	50.0	49.5		ug/L		99	77 - 123	0	20
Toluene	50.0	50.3		ug/L		101	80 - 122	1	20
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	57.4		ug/L		115	74 - 140	2	20
Trichloroethene	50.0	50.7		ug/L		101	80 - 123	2	20
Vinyl chloride	50.0	48.1		ug/L		96	68 - 132	0	30
Xylenes, Total	100	102		ug/L		102	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*105*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: MB 680-392562/9
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/22/15 11:22	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/22/15 11:22	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/22/15 11:22	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/22/15 11:22	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/22/15 11:22	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/22/15 11:22	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-392562/9
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			07/22/15 11:22	1
2-Butanone (MEK)	<10		10		ug/L			07/22/15 11:22	1
2-Hexanone	<10		10		ug/L			07/22/15 11:22	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/22/15 11:22	1
Acetone	<10		10		ug/L			07/22/15 11:22	1
Benzene	<1.0		1.0		ug/L			07/22/15 11:22	1
Bromoform	<1.0		1.0		ug/L			07/22/15 11:22	1
Bromomethane	<5.0		5.0		ug/L			07/22/15 11:22	1
Carbon disulfide	<2.0		2.0		ug/L			07/22/15 11:22	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/22/15 11:22	1
Chlorobenzene	<1.0		1.0		ug/L			07/22/15 11:22	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/22/15 11:22	1
Chloroethane	<5.0		5.0		ug/L			07/22/15 11:22	1
Chloroform	<1.0		1.0		ug/L			07/22/15 11:22	1
Chloromethane	<1.0		1.0		ug/L			07/22/15 11:22	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/22/15 11:22	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 11:22	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/22/15 11:22	1
Ethylbenzene	<1.0		1.0		ug/L			07/22/15 11:22	1
Methylene Chloride	<5.0		5.0		ug/L			07/22/15 11:22	1
Styrene	<1.0		1.0		ug/L			07/22/15 11:22	1
Tetrachloroethene	<1.0		1.0		ug/L			07/22/15 11:22	1
Toluene	<1.0		1.0		ug/L			07/22/15 11:22	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/22/15 11:22	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/22/15 11:22	1
Trichloroethene	<1.0		1.0		ug/L			07/22/15 11:22	1
Vinyl chloride	<1.0		1.0		ug/L			07/22/15 11:22	1
Xylenes, Total	<1.0		1.0		ug/L			07/22/15 11:22	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/22/15 11:22*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*07/22/15 11:22*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*07/22/15 11:22*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*07/22/15 11:22*	*1*

Lab Sample ID: LCS 680-392562/4
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	54.4		ug/L		109	74 - 128
1,1,2,2-Tetrachloroethane	50.0	52.7		ug/L		105	72 - 128
1,1,2-Trichloroethane	50.0	50.0		ug/L		100	79 - 125
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	50.7		ug/L		101	74 - 125
1,2-Dichloroethane	50.0	48.4		ug/L		97	75 - 130
1,2-Dichloropropane	50.0	50.3		ug/L		101	80 - 123
2-Butanone (MEK)	250	251		ug/L		100	75 - 133

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-392562/4
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Hexanone	250	242		ug/L		97	70 - 141
4-Methyl-2-pentanone (MIBK)	250	248		ug/L		99	75 - 135
Acetone	250	246		ug/L		98	60 - 154
Benzene	50.0	50.1		ug/L		100	73 - 131
Bromoform	50.0	63.4		ug/L		127	69 - 135
Bromomethane	50.0	67.8		ug/L		136	20 - 180
Carbon disulfide	50.0	50.8		ug/L		102	73 - 127
Carbon tetrachloride	50.0	65.0		ug/L		130	75 - 130
Chlorobenzene	50.0	51.7		ug/L		103	80 - 120
Chlorodibromomethane	50.0	50.5		ug/L		101	71 - 136
Chloroethane	50.0	52.8		ug/L		106	50 - 151
Chloroform	50.0	51.8		ug/L		104	79 - 122
Chloromethane	50.0	49.0		ug/L		98	63 - 126
cis-1,2-Dichloroethene	50.0	46.0		ug/L		92	80 - 122
cis-1,3-Dichloropropene	50.0	54.3		ug/L		109	80 - 133
Dichlorobromomethane	50.0	55.7		ug/L		111	77 - 129
Ethylbenzene	50.0	52.6		ug/L		105	80 - 120
Methylene Chloride	50.0	49.9		ug/L		100	76 - 129
Styrene	50.0	52.8		ug/L		106	80 - 122
Tetrachloroethene	50.0	50.8		ug/L		102	77 - 123
Toluene	50.0	50.0		ug/L		100	80 - 122
trans-1,2-Dichloroethene	50.0	50.4		ug/L		101	78 - 123
trans-1,3-Dichloropropene	50.0	54.6		ug/L		109	74 - 140
Trichloroethene	50.0	50.5		ug/L		101	80 - 123
Vinyl chloride	50.0	48.7		ug/L		97	68 - 132
Xylenes, Total	100	104		ug/L		104	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*

Lab Sample ID: LCSD 680-392562/5
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	54.8		ug/L		110	74 - 128	1	20
1,1,2,2-Tetrachloroethane	50.0	51.6		ug/L		103	72 - 128	2	20
1,1,2-Trichloroethane	50.0	49.1		ug/L		98	79 - 125	2	20
1,1-Dichloroethane	50.0	49.9		ug/L		100	80 - 120	1	20
1,1-Dichloroethene	50.0	50.5		ug/L		101	74 - 125	0	20
1,2-Dichloroethane	50.0	48.8		ug/L		98	75 - 130	1	20
1,2-Dichloropropane	50.0	50.1		ug/L		100	80 - 123	0	20
2-Butanone (MEK)	250	255		ug/L		102	75 - 133	1	30
2-Hexanone	250	240		ug/L		96	70 - 141	1	40
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	75 - 135	1	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-392562/5
Matrix: Water
Analysis Batch: 392562

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone			250	240		ug/L		96	60 - 154	2	40
Benzene			50.0	49.5		ug/L		99	73 - 131	1	30
Bromoform			50.0	62.8		ug/L		126	69 - 135	1	20
Bromomethane			50.0	65.3		ug/L		131	20 - 180	4	40
Carbon disulfide			50.0	50.4		ug/L		101	73 - 127	1	20
Carbon tetrachloride			50.0	65.4	*	ug/L		131	75 - 130	1	20
Chlorobenzene			50.0	50.9		ug/L		102	80 - 120	2	20
Chlorodibromomethane			50.0	49.2		ug/L		98	71 - 136	3	20
Chloroethane			50.0	51.5		ug/L		103	50 - 151	2	30
Chloroform			50.0	50.6		ug/L		101	79 - 122	2	20
Chloromethane			50.0	48.9		ug/L		98	63 - 126	0	30
cis-1,2-Dichloroethene			50.0	45.5		ug/L		91	80 - 122	1	20
cis-1,3-Dichloropropene			50.0	53.6		ug/L		107	80 - 133	1	20
Dichlorobromomethane			50.0	54.9		ug/L		110	77 - 129	1	20
Ethylbenzene			50.0	51.9		ug/L		104	80 - 120	1	20
Methylene Chloride			50.0	49.1		ug/L		98	76 - 129	2	20
Styrene			50.0	51.9		ug/L		104	80 - 122	2	20
Tetrachloroethene			50.0	51.1		ug/L		102	77 - 123	0	20
Toluene			50.0	49.5		ug/L		99	80 - 122	1	20
trans-1,2-Dichloroethene			50.0	49.9		ug/L		100	78 - 123	1	20
trans-1,3-Dichloropropene			50.0	54.0		ug/L		108	74 - 140	1	20
Trichloroethene			50.0	50.5		ug/L		101	80 - 123	0	20
Vinyl chloride			50.0	48.3		ug/L		97	68 - 132	1	30
Xylenes, Total			100	103		ug/L		103	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*

Lab Sample ID: MB 680-392752/9
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			07/23/15 10:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			07/23/15 10:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			07/23/15 10:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			07/23/15 10:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			07/23/15 10:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			07/23/15 10:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			07/23/15 10:41	1
2-Butanone (MEK)	<10		10		ug/L			07/23/15 10:41	1
2-Hexanone	<10		10		ug/L			07/23/15 10:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			07/23/15 10:41	1
Acetone	<10		10		ug/L			07/23/15 10:41	1
Benzene	<1.0		1.0		ug/L			07/23/15 10:41	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-392752/9
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			07/23/15 10:41	1
Bromomethane	<5.0		5.0		ug/L			07/23/15 10:41	1
Carbon disulfide	<2.0		2.0		ug/L			07/23/15 10:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			07/23/15 10:41	1
Chlorobenzene	<1.0		1.0		ug/L			07/23/15 10:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			07/23/15 10:41	1
Chloroethane	<5.0		5.0		ug/L			07/23/15 10:41	1
Chloroform	<1.0		1.0		ug/L			07/23/15 10:41	1
Chloromethane	<1.0		1.0		ug/L			07/23/15 10:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 10:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 10:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			07/23/15 10:41	1
Ethylbenzene	<1.0		1.0		ug/L			07/23/15 10:41	1
Methylene Chloride	<5.0		5.0		ug/L			07/23/15 10:41	1
Styrene	<1.0		1.0		ug/L			07/23/15 10:41	1
Tetrachloroethene	<1.0		1.0		ug/L			07/23/15 10:41	1
Toluene	<1.0		1.0		ug/L			07/23/15 10:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			07/23/15 10:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			07/23/15 10:41	1
Trichloroethene	<1.0		1.0		ug/L			07/23/15 10:41	1
Vinyl chloride	<1.0		1.0		ug/L			07/23/15 10:41	1
Xylenes, Total	<1.0		1.0		ug/L			07/23/15 10:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*106*		*70 - 130*		*07/23/15 10:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*85*		*70 - 130*		*07/23/15 10:41*	*1*
Dibromofluoromethane (Surr)	*91*		*70 - 130*		*07/23/15 10:41*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*07/23/15 10:41*	*1*

Lab Sample ID: LCS 680-392752/4
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	50.0	52.1		ug/L		104	74 - 128
1,1,2,2-Tetrachloroethane	50.0	49.3		ug/L		99	72 - 128
1,1,2-Trichloroethane	50.0	50.3		ug/L		101	79 - 125
1,1-Dichloroethane	50.0	51.5		ug/L		103	80 - 120
1,1-Dichloroethene	50.0	54.1		ug/L		108	74 - 125
1,2-Dichloroethane	50.0	46.0		ug/L		92	75 - 130
1,2-Dichloropropane	50.0	56.2		ug/L		112	80 - 123
2-Butanone (MEK)	250	235		ug/L		94	75 - 133
2-Hexanone	250	253		ug/L		101	70 - 141
4-Methyl-2-pentanone (MIBK)	250	251		ug/L		100	75 - 135
Acetone	250	240		ug/L		96	60 - 154
Benzene	50.0	52.9		ug/L		106	73 - 131
Bromoform	50.0	49.3		ug/L		99	69 - 135
Bromomethane	50.0	54.6		ug/L		109	20 - 180

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-392752/4
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	50.0	53.3		ug/L		107	73 - 127
Carbon tetrachloride	50.0	49.0		ug/L		98	75 - 130
Chlorobenzene	50.0	48.7		ug/L		97	80 - 120
Chlorodibromomethane	50.0	52.0		ug/L		104	71 - 136
Chloroethane	50.0	54.6		ug/L		109	50 - 151
Chloroform	50.0	50.3		ug/L		101	79 - 122
Chloromethane	50.0	55.2		ug/L		110	63 - 126
cis-1,2-Dichloroethene	50.0	53.2		ug/L		106	80 - 122
cis-1,3-Dichloropropene	50.0	57.1		ug/L		114	80 - 133
Dichlorobromomethane	50.0	51.1		ug/L		102	77 - 129
Ethylbenzene	50.0	51.9		ug/L		104	80 - 120
Methylene Chloride	50.0	49.9		ug/L		100	76 - 129
Styrene	50.0	50.6		ug/L		101	80 - 122
Tetrachloroethene	50.0	53.2		ug/L		106	77 - 123
Toluene	50.0	53.7		ug/L		107	80 - 122
trans-1,2-Dichloroethene	50.0	52.9		ug/L		106	78 - 123
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	74 - 140
Trichloroethene	50.0	48.5		ug/L		97	80 - 123
Vinyl chloride	50.0	56.7		ug/L		113	68 - 132
Xylenes, Total	100	102		ug/L		102	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 130*
Dibromofluoromethane (Surr)	*96*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 680-392752/5
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	74 - 128	2	20
1,1,2,2-Tetrachloroethane	50.0	49.2		ug/L		98	72 - 128	0	20
1,1,2-Trichloroethane	50.0	49.5		ug/L		99	79 - 125	2	20
1,1-Dichloroethane	50.0	49.3		ug/L		99	80 - 120	4	20
1,1-Dichloroethene	50.0	54.1		ug/L		108	74 - 125	0	20
1,2-Dichloroethane	50.0	43.5		ug/L		87	75 - 130	5	20
1,2-Dichloropropane	50.0	53.9		ug/L		108	80 - 123	4	20
2-Butanone (MEK)	250	223		ug/L		89	75 - 133	5	30
2-Hexanone	250	242		ug/L		97	70 - 141	5	40
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	75 - 135	3	30
Acetone	250	239		ug/L		96	60 - 154	1	40
Benzene	50.0	52.0		ug/L		104	73 - 131	2	30
Bromoform	50.0	48.8		ug/L		98	69 - 135	1	20
Bromomethane	50.0	55.4		ug/L		111	20 - 180	1	40
Carbon disulfide	50.0	54.2		ug/L		108	73 - 127	2	20
Carbon tetrachloride	50.0	47.8		ug/L		96	75 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-392752/5
Matrix: Water
Analysis Batch: 392752

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chlorobenzene			50.0	48.9		ug/L		98	80 - 120	1	20
Chlorodibromomethane			50.0	50.9		ug/L		102	71 - 136	2	20
Chloroethane			50.0	53.8		ug/L		108	50 - 151	2	30
Chloroform			50.0	48.4		ug/L		97	79 - 122	4	20
Chloromethane			50.0	54.0		ug/L		108	63 - 126	2	30
cis-1,2-Dichloroethene			50.0	51.2		ug/L		102	80 - 122	4	20
cis-1,3-Dichloropropene			50.0	55.9		ug/L		112	80 - 133	2	20
Dichlorobromomethane			50.0	48.8		ug/L		98	77 - 129	5	20
Ethylbenzene			50.0	51.9		ug/L		104	80 - 120	0	20
Methylene Chloride			50.0	49.2		ug/L		98	76 - 129	1	20
Styrene			50.0	50.4		ug/L		101	80 - 122	0	20
Tetrachloroethene			50.0	52.2		ug/L		104	77 - 123	2	20
Toluene			50.0	52.4		ug/L		105	80 - 122	2	20
trans-1,2-Dichloroethene			50.0	52.4		ug/L		105	78 - 123	1	20
trans-1,3-Dichloropropene			50.0	51.4		ug/L		103	74 - 140	3	20
Trichloroethene			50.0	49.2		ug/L		98	80 - 123	1	20
Vinyl chloride			50.0	56.8		ug/L		114	68 - 132	0	30
Xylenes, Total			100	102		ug/L		102	80 - 120	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 130*
Dibromofluoromethane (Surr)	*89*		*70 - 130*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 680-392075/29
Matrix: Water
Analysis Batch: 392075

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate as N	<0.050		0.050		mg/L			07/17/15 17:20	1
Nitrite as N	<0.050		0.050		mg/L			07/17/15 17:20	1

Lab Sample ID: LCS 680-392075/30
Matrix: Water
Analysis Batch: 392075

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate as N			0.999	0.996		mg/L		100	90 - 110
Nitrite as N			0.997	1.01		mg/L		101	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 680-392075/31
Matrix: Water
Analysis Batch: 392075

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate as N	0.999	0.993		mg/L		99	90 - 110	0	30
Nitrite as N	0.997	1.00		mg/L		101	90 - 110	0	30

Lab Sample ID: MB 680-392636/2
Matrix: Water
Analysis Batch: 392636

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	<1.0		1.0		mg/L			07/22/15 09:28	1
Chloride	<0.50		0.50		mg/L			07/22/15 09:28	1

Lab Sample ID: LCS 680-392636/3
Matrix: Water
Analysis Batch: 392636

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	10.0	10.2		mg/L		102	90 - 110
Chloride	10.0	10.2		mg/L		102	90 - 110

Lab Sample ID: LCSD 680-392636/4
Matrix: Water
Analysis Batch: 392636

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	10.0	10.3		mg/L		103	90 - 110	1	30
Chloride	10.0	10.2		mg/L		102	90 - 110	1	30

Method: 6020A - Metals (ICP/MS)

Lab Sample ID: MB 680-392608/1-A
Matrix: Water
Analysis Batch: 393232

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 392608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	<100		100		ug/L		07/22/15 10:16	07/25/15 12:36	1
Manganese	<5.0		5.0		ug/L		07/22/15 10:16	07/25/15 12:36	1

Lab Sample ID: LCS 680-392608/2-A
Matrix: Water
Analysis Batch: 393232

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 392608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5000	5510		ug/L		110	75 - 125
Manganese	500	558		ug/L		112	75 - 125

Method: 9034 - Sulfide, Acid Soluble and Insoluble (Titrimetric)

Lab Sample ID: MB 680-392286/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfide	<10		10		mg/L		07/20/15 10:48	07/20/15 10:48	1

Lab Sample ID: LCS 680-392286/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 392309 — **Prep Batch: 392286**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfide	208	170		mg/L		82	50 - 150

Method: 9060A - Organic Carbon, Total (TOC)

Lab Sample ID: MB 400-266153/31 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 266153

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	<1.0		1.0		mg/L			07/22/15 00:22	1
TOC Result 1	<1.0		1.0		mg/L			07/22/15 00:22	1
TOC Result 2	<1.0		1.0		mg/L			07/22/15 00:22	1
TOC Result 3	<1.0		1.0		mg/L			07/22/15 00:22	1
TOC Result 4	<1.0		1.0		mg/L			07/22/15 00:22	1

Lab Sample ID: LCS 400-266153/32 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 266153

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	10.0	10.1		mg/L		101	80 - 120
TOC Result 1	10.0	10.2		mg/L		102	80 - 120
TOC Result 2	10.0	10.2		mg/L		102	80 - 120
TOC Result 3	10.0	10.1		mg/L		101	80 - 120
TOC Result 4	10.0	9.93		mg/L		99	80 - 120

Lab Sample ID: MRL 400-266153/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 266153

Analyte	Spike Added	MRL Result	MRL Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.00	1.12		mg/L		112	50 - 150
TOC Result 1	1.00	1.12		mg/L		112	50 - 150
TOC Result 2	1.00	1.12		mg/L		112	50 - 150

Lab Sample ID: 680-114593-1 MS — **Client Sample ID: MW-11A**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 266153

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.1		5.00	5.80		mg/L		94	76 - 117
TOC Result 1	1.3		5.00	5.90		mg/L		92	76 - 117

Method: 9060A - Organic Carbon, Total (TOC) (Continued)

Lab Sample ID: 680-114593-1 MS
Matrix: Water
Analysis Batch: 266153

Client Sample ID: MW-11A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
TOC Result 2	1.1		5.00	5.81		mg/L		94	76 - 117
TOC Result 3	1.1		5.00	5.80		mg/L		95	76 - 117
TOC Result 4	<1.0		5.00	5.68		mg/L		94	76 - 117

Lab Sample ID: 680-114593-1 MSD
Matrix: Water
Analysis Batch: 266153

Client Sample ID: MW-11A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Total Organic Carbon	1.1		5.00	5.70		mg/L		92	76 - 117	2	16
TOC Result 1	1.3		5.00	5.75		mg/L		89	76 - 117	3	16
TOC Result 2	1.1		5.00	5.72		mg/L		92	76 - 117	1	16
TOC Result 3	1.1		5.00	5.67		mg/L		92	76 - 117	2	16
TOC Result 4	<1.0		5.00	5.65		mg/L		94	76 - 117	0	16

Method: SM 3500 FE D - Iron, Ferrous

Lab Sample ID: MB 680-392061/1
Matrix: Water
Analysis Batch: 392061

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ferrous Iron	<0.10		0.10		mg/L			07/17/15 13:00	1

Lab Sample ID: LCS 680-392061/2
Matrix: Water
Analysis Batch: 392061

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ferrous Iron	2.00	2.02		mg/L		101	80 - 120

QC Association Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

GC/MS VOA

Analysis Batch: 392393

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-3	SS-1	Total/NA	Water	8260B	
680-114593-5	Field Blank	Total/NA	Water	8260B	
680-114593-6	Trip Blank	Total/NA	Water	8260B	
LCS 680-392393/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-392393/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-392393/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 392562

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-2	OF-2	Total/NA	Water	8260B	
680-114593-4	SS-2	Total/NA	Water	8260B	
LCS 680-392562/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-392562/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-392562/9	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 392752

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	8260B	
LCS 680-392752/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-392752/5	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 680-392752/9	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 392075

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	300.0	
LCS 680-392075/30	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-392075/31	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-392075/29	Method Blank	Total/NA	Water	300.0	

Analysis Batch: 392636

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	300.0	
LCS 680-392636/3	Lab Control Sample	Total/NA	Water	300.0	
LCSD 680-392636/4	Lab Control Sample Dup	Total/NA	Water	300.0	
MB 680-392636/2	Method Blank	Total/NA	Water	300.0	

Metals

Prep Batch: 392608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Dissolved	Water	3005A	
680-114593-1	MW-11A	Total Recoverable	Water	3005A	
LCS 680-392608/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 680-392608/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 393232

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Dissolved	Water	6020A	392608

Metals (Continued)

Analysis Batch: 393232 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total Recoverable	Water	6020A	392608
LCS 680-392608/2-A	Lab Control Sample	Total Recoverable	Water	6020A	392608
MB 680-392608/1-A	Method Blank	Total Recoverable	Water	6020A	392608

General Chemistry

Analysis Batch: 266153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	9060A	
680-114593-1 MS	MW-11A	Total/NA	Water	9060A	
680-114593-1 MSD	MW-11A	Total/NA	Water	9060A	
LCS 400-266153/32	Lab Control Sample	Total/NA	Water	9060A	
MB 400-266153/31	Method Blank	Total/NA	Water	9060A	
MRL 400-266153/2	Lab Control Sample	Total/NA	Water	9060A	

Analysis Batch: 392061

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	SM 3500 FE D	
LCS 680-392061/2	Lab Control Sample	Total/NA	Water	SM 3500 FE D	
MB 680-392061/1	Method Blank	Total/NA	Water	SM 3500 FE D	

Prep Batch: 392286

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	9030B	
LCS 680-392286/2-A	Lab Control Sample	Total/NA	Water	9030B	
MB 680-392286/1-A	Method Blank	Total/NA	Water	9030B	

Analysis Batch: 392309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-114593-1	MW-11A	Total/NA	Water	9034	392286
LCS 680-392286/2-A	Lab Control Sample	Total/NA	Water	9034	392286
MB 680-392286/1-A	Method Blank	Total/NA	Water	9034	392286

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Client Sample ID: MW-11A
Date Collected: 07/16/15 09:36
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	392752	07/23/15 13:39	RWB	TAL SAV
	Instrument ID: CMSS									
Total/NA	Analysis	300.0		25	5 mL	5 mL	392075	07/17/15 22:28	DAS	TAL SAV
	Instrument ID: CICG									
Total/NA	Analysis	300.0		25	5 mL	5 mL	392636	07/22/15 16:40	AJO	TAL SAV
	Instrument ID: CICK									
Dissolved	Prep	3005A			50 mL	250 mL	392608	07/22/15 10:16	BJB	TAL SAV
Dissolved	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 13:36	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total Recoverable	Prep	3005A			50 mL	250 mL	392608	07/22/15 10:16	BJB	TAL SAV
Total Recoverable	Analysis	6020A		1	50 mL	250 mL	393232	07/25/15 13:21	BWR	TAL SAV
	Instrument ID: ICPMSC									
Total/NA	Analysis	9034		1	6 mL	6 mL	392309	07/20/15 10:48	JRJ	TAL SAV
	Instrument ID: NOEQUIP									
Total/NA	Prep	9030B			6 mL	6 mL	392286	07/20/15 10:48	JRJ	TAL SAV
Total/NA	Analysis	9060A		1			266153	07/22/15 04:35	NAB	TAL PEN
	Instrument ID: TOC-W									
Total/NA	Analysis	SM 3500 FE D		50	2 mL	2 mL	392061	07/17/15 13:00	GRX	TAL SAV
	Instrument ID: KONELAB2									

Client Sample ID: OF-2
Date Collected: 07/16/15 10:30
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-2
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392562	07/22/15 14:03	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: SS-1
Date Collected: 07/16/15 12:26
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-3
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392393	07/21/15 16:53	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: SS-2
Date Collected: 07/16/15 13:02
Date Received: 07/17/15 09:45

Lab Sample ID: 680-114593-4
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392562	07/22/15 14:24	MMT	TAL SAV
	Instrument ID: CMSP2									

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Client Sample ID: Field Blank

Lab Sample ID: 680-114593-5

Date Collected: 07/16/15 13:30
Matrix: Water
Date Received: 07/17/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392393	07/21/15 11:30	MMT	TAL SAV
	Instrument ID: CMSP2									

Client Sample ID: Trip Blank

Lab Sample ID: 680-114593-6

Date Collected: 07/16/15 09:00
Matrix: Water
Date Received: 07/17/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	392393	07/21/15 11:51	MMT	TAL SAV
	Instrument ID: CMSP2									

Laboratory References:

TAL PEN = TestAmerica Pensacola, 3355 McLemore Drive, Pensacola, FL 32514, TEL (850)474-1001

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

Serial Number 91987

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location
Phone:
Fax:

PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION (STATE)
Alterman	C00342_2015-30	GA
TAL (LAB) PROJECT MANAGER	P.O. NUMBER	CONTRACT NO
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX
Michelle Staycook	(412) 807-1494	(877) 293-6648
CLIENT NAME	CLIENT E-MAIL	
EHS Support LLC	michelle.staycook@ehssupport.com	
CLIENT ADDRESS		
4694 Cemetery Rd, PMB 104, Hilliard, OH 43026-1124		
COMPANY CONTRACTING THIS WORK (if applicable)		
Antea Group		

PAGE 1 OF 1

STANDARD REPORT DELIVERY ○
DATE DUE _____
EXPEDITED REPORT DELIVERY (SURCHARGE) ○
DATE DUE _____
NUMBER OF COOLERS SUBMITTED PER SHIPMENT:

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	MATRIX TYPE: AQUEOUS (WATER)	MATRIX TYPE: SOLID OR SEMISOLID	MATRIX TYPE: AIR	MATRIX TYPE: NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	REQUIRED ANALYSIS: HCl 8260C	7056	9034	6020A	9060A	6020A	300.0 Anions, F, SO4 300.0 Ortho-P, F, SO4	353.2 NO2/NO3 Calc Ferrous Iron			REMARKS
								NUMBER OF CONTAINERS SUBMITTED										
										No Pres	HNO3	H2SO4	None	None				
7/16/15	0936	MW-11A	G	✓				3		2	2	3	1	1	1			
7/16/15	1030	OF-2	G	✓				3										
7/16/15	1226	SS-1	G	✓				3										
7/16/15	1302	SS-2	G	✓				3										
7/16/15	1330	Field Blank	G	✓				3										
7/16/15	0900	Trip Blank		✓				2										

680-114593 Chain of Custody

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME
	7/16/15	1546		7-16-15	1900			
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME
	7-16-15	1546						

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
	07-17-15	0945	YES ○ NO ○		680-114593	2.0(A) 2.5(C)

TAL8240-680 (1008)

11/27/2015

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114593-1

Login Number: 114593
List Number: 1
Creator: Banda, Christy S

List Source: TestAmerica Savannah

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-114593-1

Login Number: 114593
List Number: 2
Creator: Crawford, Lauren E

List Source: TestAmerica Pensacola
List Creation: 07/18/15 12:40 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.0°C IR-2
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Certification Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-114593-1

Laboratory: TestAmerica Savannah

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Georgia	State Program	4	803	06-30-16

Laboratory: TestAmerica Pensacola

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Alabama	State Program	4	40150	06-30-15 *
Arizona	State Program	9	AZ0710	01-11-16
Arkansas DEQ	State Program	6	88-0689	09-01-15
Florida	NELAP	4	E81010	06-30-16
Georgia	State Program	4	N/A	06-30-16
Illinois	NELAP	5	200041	10-09-15
Iowa	State Program	7	367	07-31-16
Kansas	NELAP	7	E-10253	08-31-15 *
Kentucky (UST)	State Program	4	53	06-30-16
Kentucky (WW)	State Program	4	98030	12-31-15
Louisiana	NELAP	6	30976	06-30-16
Maryland	State Program	3	233	09-30-15
Massachusetts	State Program	1	M-FL094	06-30-16
Michigan	State Program	5	9912	06-30-16
New Jersey	NELAP	2	FL006	09-30-15 *
North Carolina (WW/SW)	State Program	4	314	12-31-15
Oklahoma	State Program	6	9810	08-31-15
Pennsylvania	NELAP	3	68-00467	01-31-16
Rhode Island	State Program	1	LAO00307	12-30-15
South Carolina	State Program	4	96026	06-30-15 *
Tennessee	State Program	4	TN02907	06-30-16
Texas	NELAP	6	T104704286-12-5	09-30-15
USDA	Federal		P330-13-00193	07-01-16
Virginia	NELAP	3	460166	06-14-16
West Virginia DEP	State Program	3	136	06-30-16

* Certification renewal pending - certification considered valid.

APPENDIX D

Trend Graph Source Data

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-3A	9-May-06	14	0.5	0.5	0.5
MW-3A	5-Mar-08	20	0.5	0.5	0.5
MW-3A	20-Oct-08	64	0.5	0.5	0.5
MW-3A	20-Aug-09	38	0.5	0.5	0.5
MW-3A	17-May-11	42	0.5	0.5	0.5
MW-3A	8-May-13	49	0.5	0.5	0.5
MW-3A	22-Jul-14	60	1.1	0.5	0.5
MW-3A	22-Jan-15	75	0.5	0.5	0.5
MW-3A	2-Jul-15	11	0.5	0.5	0.5
MW-3B	10-May-06	0.5	0.5	0.5	0.5
MW-3B	5-Mar-08	0.5	0.5	0.5	0.5
MW-3B	20-Oct-08	0.5	0.5	0.5	0.5
MW-3B	20-Aug-09	0.5	0.5	0.5	0.5
MW-3B	17-May-11	0.5	0.5	0.5	0.5
MW-3B	8-May-13	0.5	0.5	0.5	0.5
MW-3B	22-Jul-14	0.5	0.5	0.5	0.5
MW-3B	21-Jan-15	0.5	0.5	0.5	0.5
MW-3B	1-Jul-15	0.5	0.5	0.5	0.5
MW-8A	2-Aug-06	550	58	25	2.5
MW-8A	5-Mar-08	710	91	35	2.5
MW-8A	27-Oct-08	490	56	25	2.0
MW-8A	19-Aug-09	760	83	30	2.0
MW-8A	16-Oct-09	750	64	26	2.5
MW-8A	12-Nov-09	850	69	24	2.5
MW-8A	17-Dec-09	910	60	27	2.5
MW-8A	28-Jan-10	84	6.4	3.1	0.5
MW-8A	25-Feb-10	930	53	24	0.5
MW-8A	24-Mar-10	840	31	8.9	0.5
MW-8A	27-Apr-10	760	5.0	5.0	5.0
MW-8A	27-May-10	600	5.0	5.0	5.0
MW-8A	18-May-11	630	17	5.0	5.0
MW-8A	7-May-13	140	9.2	2.8	0.5
MW-8A	23-Jul-14	550	32	12	5.0
MW-8A	22-Jan-15	570	46	22	5.0
MW-8A	14-Jul-15	96	0.5	0.5	0.5
MW-8B	2-Aug-06	86	7.7	3.6	0.5
MW-8B	5-Mar-08	140	10	5.4	0.5
MW-8B	16-Oct-08	75	4.4	2.7	0.5
MW-8B	19-Aug-09	98	5.9	2.7	0.5

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-8B	16-Oct-09	150	7.0	3.7	0.5
MW-8B	12-Nov-09	190	9.2	3.3	1.0
MW-8B	17-Dec-09	220	11	4.8	1.0
MW-8B	28-Jan-10	180	8.8	4.3	1.0
MW-8B	26-Feb-10	290	13	4.5	1.0
MW-8B	24-Mar-10	260	12	4.4	1.0
MW-8B	27-Apr-10	200	8.2	3.2	1.0
MW-8B	27-May-10	180	5.0	2.0	1.0
MW-8B	26-Aug-10	240	13	5.3	1.0
MW-8B	31-Mar-11	220	1.0	1.0	1.0
MW-8B	18-May-11	170	1.0	1.0	1.0
MW-8B	8-May-13	2.8	0.5	0.5	0.5
MW-8B	23-Jul-14	190	1.0	1.0	1.0
MW-8B	21-Jan-15	310	2.5	2.5	2.5
MW-8B	14-Jul-15	7.7	1.0	1.0	1.0
MW-8C	16-Oct-08	0.5	0.5	0.5	0.5
MW-8C	19-Aug-09	0.5	0.5	0.5	0.5
MW-8C	16-Oct-09	0.5	0.5	0.5	0.5
MW-8C	12-Nov-09	0.5	0.5	0.5	0.5
MW-8C	17-Dec-09	0.5	0.5	0.5	0.5
MW-8C	28-Jan-10	0.5	0.5	0.5	0.5
MW-8C	25-Feb-10	0.5	0.5	0.5	0.5
MW-8C	24-Mar-10	0.5	0.5	0.5	0.5
MW-8C	27-Apr-10	0.5	0.5	0.5	0.5
MW-8C	27-May-10	0.5	0.5	0.5	0.5
MW-8C	26-Aug-10	0.5	0.5	0.5	0.5
MW-8C	31-Mar-11	0.5	0.5	0.5	1.0
MW-8C	18-May-11	0.5	0.5	0.5	0.5
MW-8C	7-May-13	6.8	0.5	0.5	0.5
MW-8C	23-Jul-14	0.5	0.5	0.5	0.5
MW-8C	21-Jan-15	0.5	0.5	0.5	0.5
MW-8C	2-Jul-15	0.5	0.5	0.5	0.5
MW-9A	2-Aug-06	1,000	15	5.0	5.0
MW-9A	5-Mar-08	110	3.8	0.5	0.5
MW-9A	20-Oct-08	75	3.5	0.5	0.5
MW-9A	20-Aug-09	240	25	3.1	0.5
MW-9A	18-May-11	790	48	5.0	5.0
MW-9A	9-May-13	230	29	4.7	2.0

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-9A	23-Jul-14	370	230	8.5	2.5
MW-9A	22-Jan-15	560	86	6.6	2.5
MW-9A	14-Jul-15	310	180	7.9	0.5
MW-9B	2-Aug-06	4.7	1.0	0.5	0.5
MW-9B	5-Mar-08	0.5	0.5	0.5	0.5
MW-9B	20-Oct-08	0.5	0.5	0.5	0.5
MW-9B	20-Aug-09	0.5	0.5	0.5	0.5
MW-9B	18-May-11	0.5	0.5	0.5	0.5
MW-9B	8-May-13	0.5	0.5	0.5	0.5
MW-9B	23-Jul-14	0.5	0.5	0.5	0.5
MW-9B	21-Jan-15	0.5	0.5	0.5	0.5
MW-9B	2-Jul-15	0.5	0.5	0.5	0.5
MW-10A	5-Mar-08	670	110	46	2.5
MW-10A	22-Oct-08	1700	250	83	10
MW-10A	21-Aug-09	770	94	49	2.5
MW-10A	16-Oct-09	800	85	35	2.5
MW-10A	13-Nov-09	570	64	25	2.5
MW-10A	17-Dec-09	650	75	34	2.5
MW-10A	28-Jan-10	180	12	6.1	1.0
MW-10A	26-Feb-10	260	18	8.5	1.0
MW-10A	24-Mar-10	290	23	10	1.0
MW-10A	27-Apr-10	360	29	14	1.0
MW-10A	27-May-10	360	29	13	1.0
MW-10A	27-Aug-10	770	83	31	2.5
MW-10A	31-Mar-11	590	79	32	2.5
MW-10A	19-May-11	380	64	42	2.5
MW-10A	9-May-13	270	27	10	1.0
MW-10A	23-Jul-14	480	82	41	2.5
MW-10A	22-Jan-15	660	130	73	2.5
MW-10A	14-Jul-15	220	37	21	0.5
MW-10B	5-Mar-08	2.6	0.5	0.5	0.5
MW-10B	22-Oct-08	3.4	0.5	0.5	0.5
MW-10B	21-Aug-09	0.5	0.5	0.5	0.5
MW-10B	16-Oct-09	2.0	0.5	0.5	0.5
MW-10B	13-Nov-09	1.0	0.5	0.5	0.5
MW-10B	17-Dec-09	1.2	0.5	0.5	0.5
MW-10B	28-Jan-10	0.5	0.5	0.5	0.5
MW-10B	25-Feb-10	0.5	0.5	0.5	0.5

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-10B	24-Mar-10	0.5	0.5	0.5	0.5
MW-10B	27-Apr-10	0.5	0.5	0.5	0.5
MW-10B	27-May-10	0.5	0.5	0.5	0.5
MW-10B	27-Aug-10	0.5	0.5	0.5	0.5
MW-10B	31-Mar-11	3.3	0.5	0.5	0.5
MW-10B	19-May-11	1.2	0.5	0.5	0.5
MW-10B	8-May-13	7.7	0.5	0.5	0.5
MW-10B	23-Jul-14	76	1.8	1.7	0.5
MW-10B	22-Jan-15	0.5	0.5	0.5	0.5
MW-10B	2-Jul-15	0.5	0.5	0.5	0.5
MW-10C	22-Oct-08	0.5	0.5	0.5	0.5
MW-10C	21-Aug-09	0.5	0.5	0.5	0.5
MW-10C	16-Oct-09	0.5	0.5	0.5	0.5
MW-10C	13-Nov-09	0.5	0.5	0.5	0.5
MW-10C	17-Dec-09	0.5	0.5	0.5	0.5
MW-10C	28-Jan-10	0.5	0.5	0.5	0.5
MW-10C	25-Feb-10	0.5	0.5	0.5	0.5
MW-10C	24-Mar-10	0.5	0.5	0.5	0.5
MW-10C	27-Apr-10	2.7	0.5	0.5	0.5
MW-10C	27-May-10	0.5	0.5	0.5	0.5
MW-10C	27-Aug-10	0.5	0.5	0.5	0.5
MW-10C	31-Mar-11	0.5	0.5	0.5	0.5
MW-10C	19-May-11	1.1	0.5	0.5	0.5
MW-10C	8-May-13	20	0.5	0.5	0.5
MW-10C	23-Jul-14	3.2	0.5	0.5	0.5
MW-10C	22-Jan-15	7.6	1.0	0.5	0.5
MW-10C	2-Jul-15	3.4	0.5	0.5	0.5
MW-11A	5-Mar-08	5100	100	80	25
MW-11A	17-Oct-08	2600	67	53	25
MW-11A	20-Aug-09	4700	100	71	25
MW-11A	5-Oct-09	6500	82	89	25
MW-11A	13-Nov-09	6000	110	65	25
MW-11A	17-Dec-09	5400	89	69	25
MW-11A	28-Jan-10	2700	61	25	25
MW-11A	25-Feb-10	3300	62	39	10
MW-11A	24-Mar-10	3000	53	51	25
MW-11A	27-Apr-10	2700	65	25	25
MW-11A	27-May-10	2900	61	25	25
MW-11A	27-Aug-10	3800	72	69	25

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-11A	31-Mar-11	3300	74	54	25
MW-11A	9-May-13	1200	28	19	5.0
MW-11A	22-Jul-14	2.5	2.5	2.5	2.5
MW-11A	22-Jan-15	2.5	2.5	2.5	2.5
MW-11A	2-Jul-15	3.4	0.5	0.5	0.5
MW-11B	5-Mar-08	3.2	0.5	0.5	0.5
MW-11B	16-Oct-08	0.5	0.5	0.5	0.5
MW-11B	20-Aug-09	0.5	0.5	0.5	0.5
MW-11B	5-Oct-09	0.5	0.5	0.5	0.5
MW-11B	13-Nov-09	0.5	0.5	0.5	0.5
MW-11B	17-Dec-09	0.5	0.5	0.5	0.5
MW-11B	28-Jan-10	0.5	0.5	0.5	0.5
MW-11B	26-Feb-10	0.5	0.5	0.5	0.5
MW-11B	24-Mar-10	0.5	0.5	0.5	0.5
MW-11B	27-Apr-10	100	100	100	100
MW-11B	27-May-10	100	100	100	100
MW-11B	27-Aug-10	100	100	100	100
MW-11B	31-Mar-11	140	25	25	25
MW-11B	9-May-13	0.5	0.5	0.5	0.5
MW-11B	22-Jul-14	19	1.8	0.5	0.5
MW-11B	21-Jan-15	0.5	0.5	0.5	0.5
MW-11B	2-Jul-15	2.5	2.5	2.5	2.5
MW-11C	16-Oct-08	0.5	0.5	0.5	0.5
MW-11C	20-Aug-09	0.5	0.5	0.5	0.5
MW-11C	5-Oct-09	0.5	0.5	0.5	0.5
MW-11C	13-Nov-09	25	25	25	25
MW-11C	17-Dec-09	0.5	0.5	0.5	0.5
MW-11C	28-Jan-10	0.5	0.5	0.5	0.5
MW-11C	25-Feb-10	0.5	0.5	0.5	0.5
MW-11C	24-Mar-10	0.5	0.5	0.5	0.5
MW-11C	27-Apr-10	0.5	0.5	0.5	0.5
MW-11C	27-May-10	1.1	0.5	0.5	0.5
MW-11C	27-Aug-10	1.6	0.5	0.5	0.5
MW-11C	31-Mar-11	0.5	0.5	0.5	0.5
MW-11C	17-May-11	0.5	0.5	0.5	0.5
MW-11C	9-May-13	1.7	0.5	0.5	0.5

Appendix D
Source Table for Trend Graphs
Tara Shopping Center Jonesboro, Georgia

Well ID	Sample Date	PCE (5 ug/l)	TCE (5 ug/l)	cis-1, 2 DCE (70 ug/l)	Vinyl Chloride (2 ug/l)
MW-11C	22-Jul-14	0.5	0.5	0.5	0.5
MW-11C	21-Jan-15	1.0	0.5	0.5	0.5
MW-11C	2-Jul-15	0.5	0.5	0.5	0.5

QUALIFIERS
µg/L - micrograms per liter
Yellow - exceeds Type 1 Risk Reduction Standard for Groundwater (May 2009)
Gray - Non detects are shown as 1/2 the detection limit.

APPENDIX E

Well Construction Logs

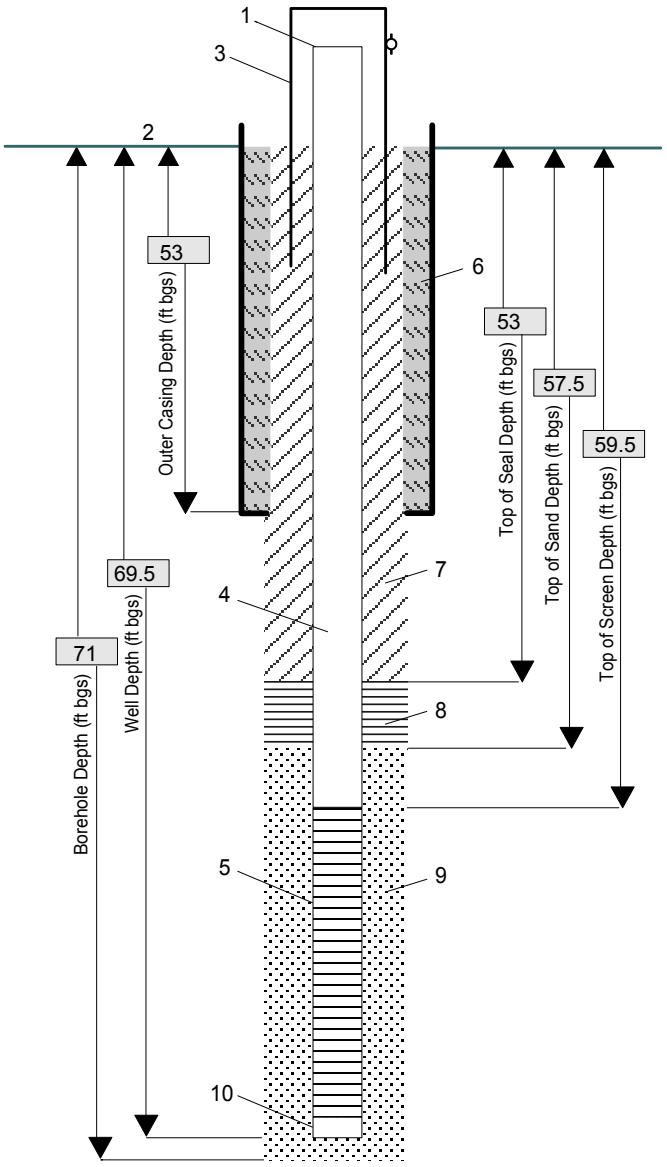
EHS Support *consider it done*

Well ID: MW-15C

Well ID Address: 8557 Tara Blvd.
Parcel ID #: 13242D A016A

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236466.173	Northing: 1280497.380
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Matt Pope	Logged by: Pat Peterson

Sketch Map



Boring Diameter (in.) 10 and 6

Outer Casing Installation Date	6/9/2015
Well Installation Date	6/11/2015
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	890.470
2. Ground Surface Elevation (ft msl)	890.750
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	3' x 3'
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	59.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Outer Casing	
a) Material	Steel
b) Diameter (in.)	6
c) Length (ft.)	53
d) Grout Type	Cement
7. Grout	
a) Type	Portland Cement
b) Description/Formula	94 lb/6 gal
c) Quantity	-
8. Seal	
a) Manufacturer/Type	Bentonite
b) Quantity	-
9. Filter Pack	
a) Manufacturer	-
b) Filter Pack Size	Sand
c) Quantity	-
10. Sump or End Cap Length (ft.)	0.1
11. Drilling Fluid	
a) Additive	Water
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	6/11/2015
Static Water Level ~ 40	(bTOC) or bgs

Comments:

10-inch borehole cored for setting 6-inch permanent steel secondary casing. Equipped with 2-inch expansion cap and lock.

Completed by: Pat Peterson

EHS Support consider it done

Boring: MW-15C

Well ID Address: 8557 Tara Blvd.
Parcel ID #: 13242D A016A

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 6/8/2015	Date Finished: 6/11/2015	
Ground Surface Elevation (ft msl): 890.75	Top of Casing Elevation (ft msl): 890.47	
GASP West Zone Easting: 2236466.173 Northing: 1280497.380	Total Depth (ft): 71	
Drilling Method: Sonic	Borehole Diameter (in): 10 and 6	
Rig Type: Geoprobe	Drilll Bit Diameter (in) / Type: 4x6x10 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Matt Pope	Logged by: Pat Peterson	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
890	0		Asphalt				0.0		
			Dark gray (2.5Y 4/2) SAND and GRAVEL base, moist (fill)						
	2		Yellowish red (5YR 4/6) SAND and GRAVEL, moist, some weathered rock (fill)				0.0		
888			Yellowish red (5YR 4/6) FINE SANDY CLAY, moist, micaceous (fill)						
	4			1	SC	8.0	0.0		
886			Dark yellowish brown (10YR 3/4) SILTY CLAY, some wood and roots, low plasticity, moist, (fill)						
	6						0.0		
884			Dark red (2.5YR 3/6) CLAYEY SILT (ML), moist, non plastic, very stiff, micaceous, trace dark organic fill fractures, blocky structure. Native soil at 8 feet bgs.						
	8						1.2		
882									
	10						3.6		
880									
	12						2.3		
878				2	SC	10.0			
	14						3.3		
876									
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): 50.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-15C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
874	16–17		Dark red (2.5YR 3/6) CLAYEY SILT (ML), moist, non plastic, very stiff, micaceous, trace dark organic fill fractures, blocky structure. Native soil at 8 feet bgs.	2	SC	10.0	5.1		
	17–18		Light yellowish brown (2.5Y 6/2) SILT (ML) little sand, highly weathered saprolite, non plastic, slightly laminated, micaceous				0.0		
872	18–19								
	19–20						0.0		
870	20–21								
	21–22						0.0		
868	22–23			3	SC	10.0			
	23–24						1.2		
866	24–25								
	25–26		Yellowish brown (10YR 5/6) SAPROLITE, highly weathered, slightly competent, very weak, thinly bedded, some iron staining, crumbles with hand pressure				12.5		
864	26–27								
	27–28						3.0		
862	28–29								
	29–30						1.6		
860	30–31		Greenish gray (5GY 5/1) SAPROLITE, fine sand and silt, increasing competency with depth						
	31–32						6.0		
858	32–33			4	SC	10.0			
	33–34						21.5		
856	34–35								
	35–36						0.0		
854	36–37		Light yellowish brown (2.5Y 6/3) SAPROLITE, moist, highly weathered, increase in mica content, highly iron-stained at 36.5 to 37 feet bgs						
	37–38		Black and white SAPROLITE, highly weathered, gneissic texture, granular						

Notes:
Depth to water in borehole during drilling (ft bgs): 50.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-15C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
852	39		feldspar composition, crumbles with hand pressure						No return from 38 to 48 feet.
	40								
850	41								
	42								
848	43			5	SC	0.0	NA		
	44								
846	45								
	46								
844	47								
	48		Black and white BIOTITE GNEISS, wet, fresh, competent, slightly fractured, strong gneissic texture				0.0		
842	49			6	SC	2.0			
	50						0.0		
840	51								Secondary 10-inch outer steel casing set to 53 feet bgs. Secured with concrete on 6/9/2015. Resumed drilling on 6/10/2015.
	52						0.0		
838	53			7	SC	5.0			
	54						0.0		
836	55		Black and white BIOTITE GNEISS, wet, fractured approximately every 2 inches, evidence of infilling along fracture surfaces						
	56						0.0		
834	57								
	58						0.0		
832	59								
	60			8	SC	10.0			

Notes:
Depth to water in borehole during drilling (ft bgs): 50.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-15C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
830	61						0.0		
	62						0.0		
828	63								
	64						0.0		
826	65								
	66		Black and white BIOTITE GNEISS, fractured, secondary mineralization along fractures. More competent from 69 to 71 feet bgs.						Monitoring well set on 6/11/2015. Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 59.5 to 69.5 feet bgs.
824	67						0.0		
	68			9	SC	6.0			
822	69						0.0		
	70								
820	71						0.0		

Notes:
Depth to water in borehole during drilling (ft bgs): 50.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-15C

EHS Support consider it done

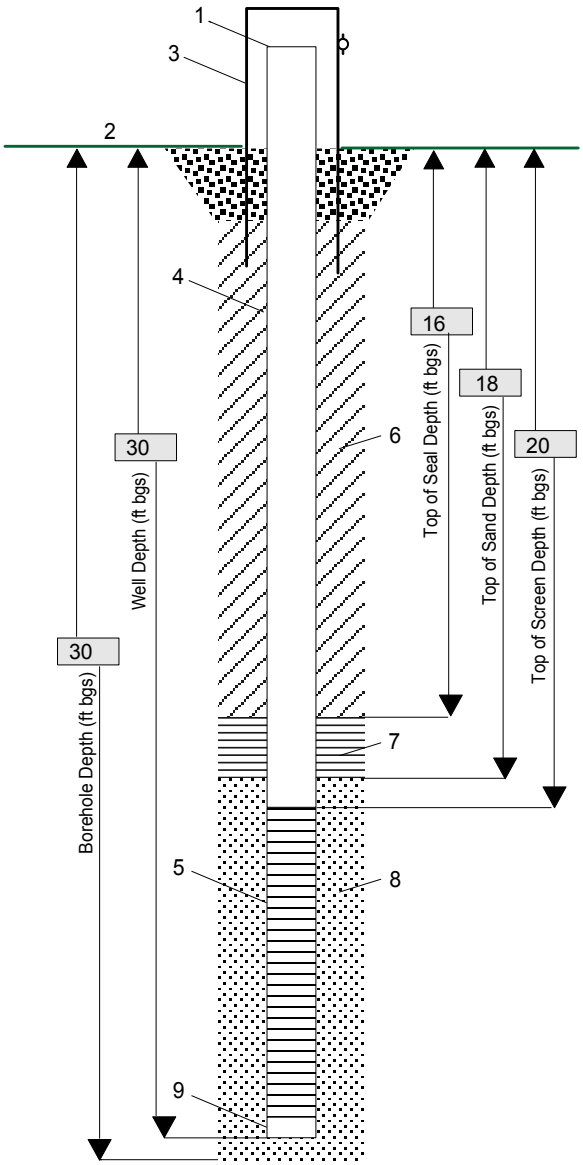
EHS Support *consider it done*

Well ID: MW-18A

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B007

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236773.758	Northing: 1280203.854
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	11/27/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	888.292
2. Ground Surface Elevation (ft msl)	888.630
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	20
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	22.1 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Kris Spikes

EHS Support consider it done

Boring: MW-18A

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B007

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 11/27/2012	Date Finished: 11/27/2012	
Ground Surface Elevation (ft msl): 888.63	Top of Casing Elevation (ft msl): 888.29	
GASP West Zone Easting: 1280203.854 Northing: 2236773.758	Total Depth (ft): 30	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

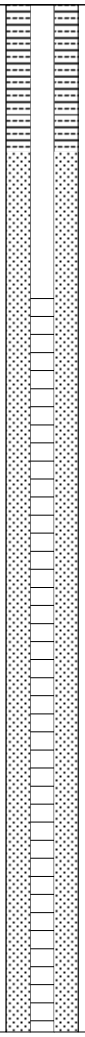
Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
888	0		Asphalt						
			Light red SANDY CLAY (CL), dry						
	2			1	HA	5.0	0.0		
886									
	4								
884									
			Light brown SANDY CLAY (CL), dry						
	6								
882				2	SC	NR	0.0		
	8								
880									
	10		Light red SANDY CLAY (CL), with silt, dry, stiff, micaceous. Increasing moisture at 15 feet bgs.						
878									
	12								
876				3	SC	NR	0.0		
	14								
874									
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 22.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-18A

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
872	16		Light red SANDY CLAY (CL), with silt, dry, stiff, micaceous. Increasing moisture at 15 feet bgs.	4	SC	NR	0.0		Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 20 to 30 feet bgs.
	17								
	18								
870	19								
	20		Light brown SANDY CLAY (CL), with silt, dry, micaceous. Increasing moisture with depth.	5	SC	NR	0.0		
868	21								
	22								
866	23								
	24								
864	25		Red SANDY CLAY (CL), with silt, saprolite, wet	6	SC	NR	0.0		
	26								
862	27								
	28								
860	29								
	30								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 22.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-18A

EHS Support consider it done

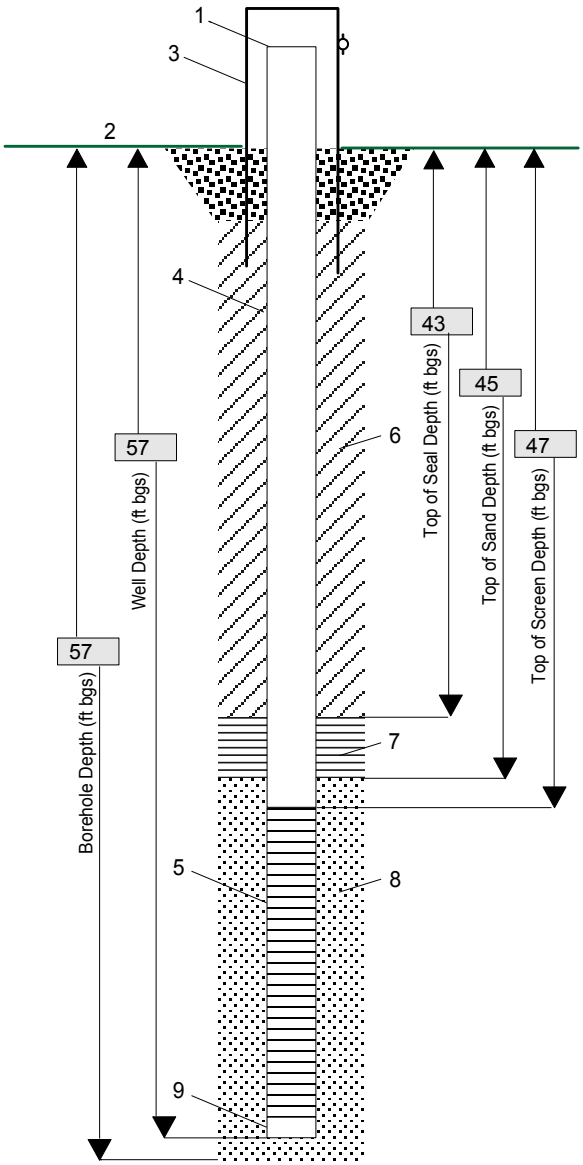
EHS Support *consider it done*

Well ID: MW-18B

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B007

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236766.192	Northing: 1280203.918
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	11/27/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	888.225
2. Ground Surface Elevation (ft msl)	888.600
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	47
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	22.3 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Kris Spikes

EHS Support consider it done

Boring: MW-18B

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B007

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 11/27/2012	Date Finished: 11/27/2012	
Ground Surface Elevation (ft msl): 888.60	Top of Casing Elevation (ft msl): 888.23	
GASP West Zone Easting: 1280203.918 Northing: 2236766.192	Total Depth (ft): 57	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
888	0		Asphalt						
			Light red SANDY CLAY (CL), dry						
	2			1	HA	5.0	0.0		
886									
	4								
884									
			Light brown SANDY CLAY (CL), dry						
	6								
882				2	SC	NR	0.0		
	8								
880									
	10		Red SANDY CLAY (CL), dry, stiff						
878									
	12								
876				3	SC	NR	0.0		
	14								
874									
			Light red to light brown SANDY CLAY (CL), with silt, micaceous						
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 22.30
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

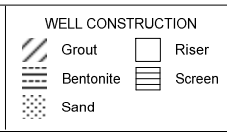
WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-18B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
872	16		Light red to light brown SANDY CLAY (CL), with silt, micaceous	4	SC	NR	0.0		
	17								
	18								
870	19								
	20		Light red to light brown SANDY CLAY (CL), with silt, moist, micaceous	5	SC	NR	0.0		
868	21								
	22								
866	23								
	24								
864	25		Red SANDY CLAY (CL), with silt, saprolite, wet, micaceous	6	SC	NR	0.0		
	26								
862	27								
	28								
860	29								
	30		Light brown SANDY CLAY (CL), with silt, saprolite, moist, micaceous. Becomes mottled at 35 feet bgs. Rock fragments and quartz veins at 40 feet bgs.	7	SC	NR	0.0		
858	31								
	32								
856	33								
	34								
854	35			8	SC	NR	0.0		
	36								
852	37								
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 22.30
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88



Boring: MW-18B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
850	39								
	40								
848	41								
	42								
846	43			9	SC	NR	0.0		
	44								
844	45		Light brown SANDY CLAY (CL), moist						
	46								
842	47			10	SC	NR	0.0		
	48								
840	49								
	50								
838	51								
	52			11	SC	NR	0.0		
836	53								
	54								
834	55								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 47 to 57 feet bgs.
	56			12	SC	NR			
832	57								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 22.30
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-18B

EHS Support consider it done

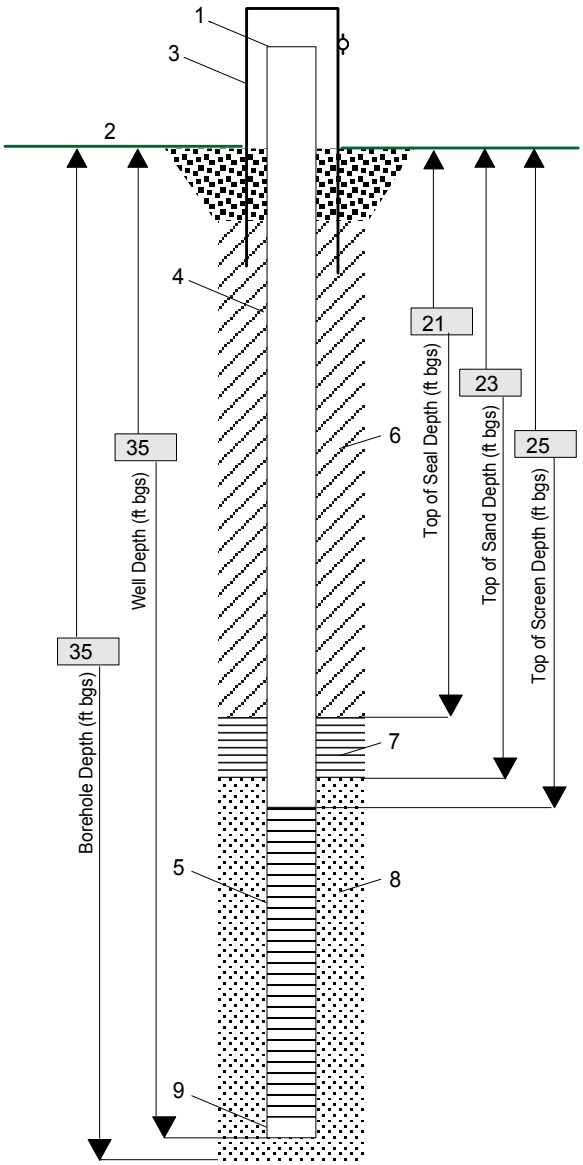
EHS Support *consider it done*

Well ID: MW-19A

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236383.957	Northing: 1279961.327
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	12/5/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	879.941
2. Ground Surface Elevation (ft msl)	880.100
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	25
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	16.59 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Kris Spikes

EHS Support consider it done

Boring: MW-19A

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 12/5/2012	Date Finished: 12/5/2012	
Ground Surface Elevation (ft msl): 880.10	Top of Casing Elevation (ft msl): 879.94	
GASP West Zone Easting: 1279961.327 Northing: 2236383.957	Total Depth (ft): 35	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

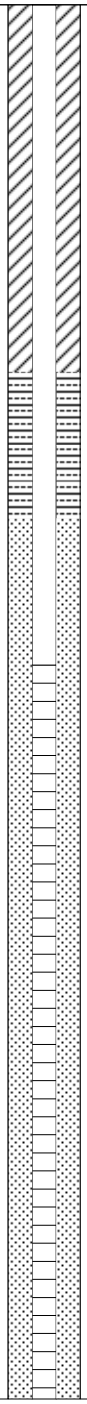
Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
880	0		Blind drill to depth. Refer to MW-19C for lithology.						
878	2								
876	4								
874	6								
872	8								
870	10								
868	12								
866	14								
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 16.59
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19A

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
864	16		Blind drill to depth. Refer to MW-19C for lithology.						
	17								
862	18								
	19								
860	20								
	21								
858	22								
	23								
856	24								
	25								
854	26								
	27								
852	28								
	29								
850	30								
	31								
848	32								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 25 to 35 feet bgs.
	33								
846	34								
	35								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 16.59
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19A

EHS Support consider it done

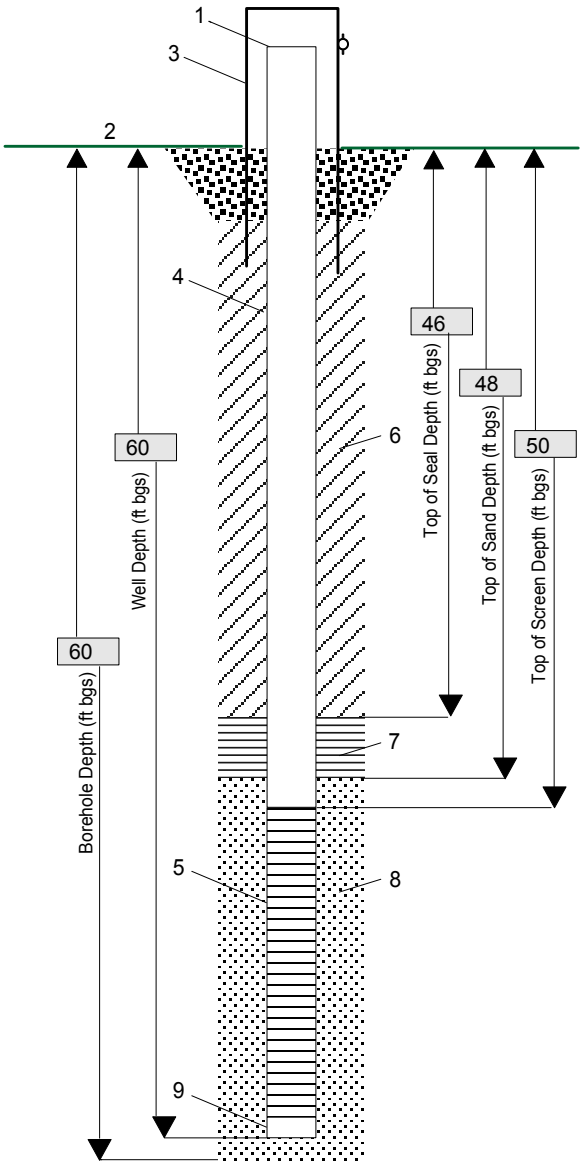
EHS Support *consider it done*

Well ID: MW-19B

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236394.1	Northing: 1279956.697
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	12/5/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	880.168
2. Ground Surface Elevation (ft msl)	880.320
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	50
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	16.81 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Kris Spikes

EHS Support consider it done

Boring: MW-19B

Well ID Address: 8650 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 12/4/2012	Date Finished: 12/5/2012	
Ground Surface Elevation (ft msl): 880.32	Top of Casing Elevation (ft msl): 880.17	
GASP West Zone Easting: 1279956.697 Northing: 2236394.100	Total Depth (ft): 60	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
880	0		Blind drill to depth. Refer to MW-19C for lithology.						
878	2								
876	4								
874	6								
872	8								
870	10								
868	12								
866	14								
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 16.81
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
864	16		Blind drill to depth. Refer to MW-19C for lithology.						
	17								
	18								
862	19								
	20								
860	21								
	22								
858	23								
	24								
856	25								
	26								
854	27								
	28								
852	29								
	30								
850	31								
	32								
848	33								
	34								
846	35								
	36								
844	37								
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 16.81
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
842	39								
	40								
840	41								
	42								
838	43								
	44								
836	45								
	46								
834	47								
	48								
832	49								
	50								
830	51								
	52								
828	53								
	54								
826	55								
	56								
824	57								
	58								
822	59								
	60								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 50 to 60 feet bgs.

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 16.81
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19B

EHS Support consider it done

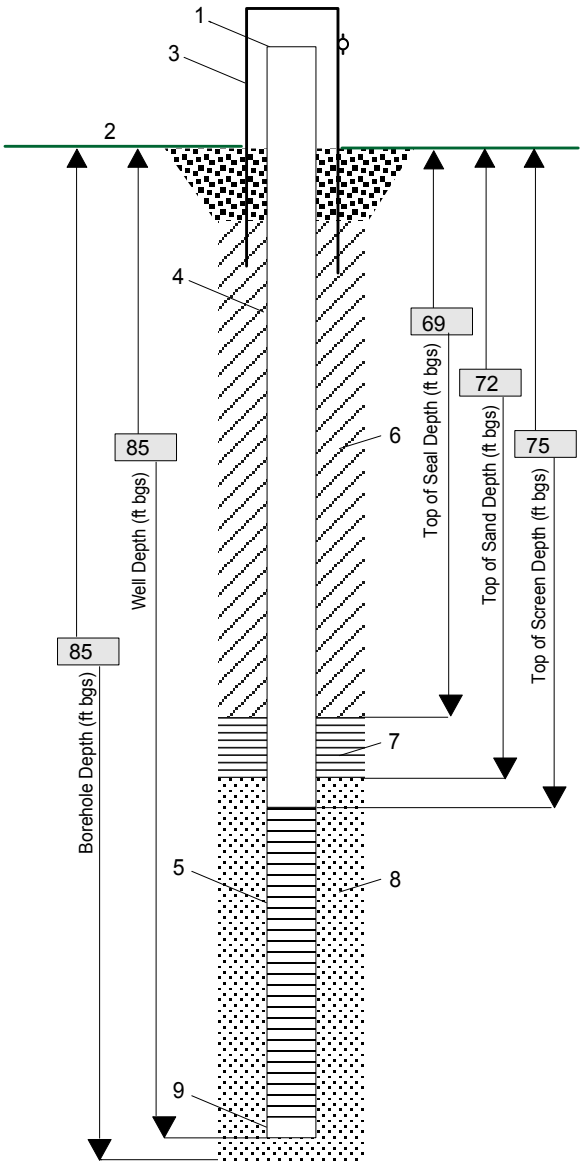
EHS Support *consider it done*

Well ID: MW-19C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236388.719	Northing: 1279959.255
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 10 and 6

Well Installation Date	12/4/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	880.006
2. Ground Surface Elevation (ft msl)	880.210
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	75
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	16.42 (bTOC) or bgs

Comments:
A 10-inch diameter temporary casing sealed borehole during borehole advancement and well installation. Dry drilling pulverized rock making residuum/rock interface less discernable. Equipped with 2-inch expansion cap and lock.

Completed by: Kris Spikes

EHS Support
consider it done

Well ID: MW-19C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236388.719	Northing: 1279959.255
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map

EHS Support consider it done

Boring: MW-19C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 11/28/2012	Date Finished: 12/4/2012	
Ground Surface Elevation (ft msl): 880.21	Top of Casing Elevation (ft msl): 880.01	
GASP West Zone Easting: 1279959.255 Northing: 2236388.719	Total Depth (ft): 85	
Drilling Method: Sonic	Borehole Diameter (in): 10 and 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6x10 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
880	0		Asphalt						
			Light red SANDY CLAY (CL), with silt, dry, mottled, micaceous						
878	2			1	SC	NR	0.0		
876	4								
			Light brown FINE SAND (SM) with silt, dry. Grades to pink.						
874	6								
				2	SC	NR	0.0		
872	8								
			Light red FINE SAND (SM) with silt, damp. Grades to silty clay.						
870	10								
							0.0		
868	12			3	SC	NR			
866	14		Red SILTY CLAY (CL)				0.0		
			Light red FINE SAND (SM) with silt and clay, moist, loose						
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 16.42
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
864	16		Light red FINE SAND (SM) with silt and clay, moist, loose						
	17						0.0		
862	18			4	SC	NR			
	19								
860	20		Light red SILTY SAND (SM), moist, loose						
	21						0.3		
858	22			5	SC	NR			
	23		Red SANDY SILT (ML) with clay, wet, mottled						
856	24						0.0		
	25		Light red SANDY SILT (MH) with clay, wet, mottled, micaceous. Rock fragement at 31 feet bgs.				1.5		Odor
854	26								
	27			6	SC	NR			
852	28								
	29								
850	30								
	31		Light red SANDY SILT (MH) with clay, wet, mottled, saprolite				1.4		
848	32						0.9		
	33			7	SC	NR			
	34		Light brown to grey SANDY SILT (ML), rock fragments				1.4		
846	35		Light brown SILTY SAND (SM), moist, loose, saprolite. Wet at 40 feet bgs.				1.7		
844	36								
	37			8	SC	NR			
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 16.42
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
842	39								
840	40								
	41								
838	42			9	SC	NR	0.0		
	43								
836	44		Light brown SANDY CLAY (CL). Highly micaceous weathered rock.				0.0		
	45		Light brown SILTY CLAY (CL), moist, saprolite. Grading to light red.						
834	46								
	47			10	SC	NR	0.0		
832	48								
	49								
830	50		Light brown SILTY CLAY (CL)						
	51								
828	52			11	SC	NR	0.0		
	53								
826	54								
	55								
824	56						0.0		
	57		Light brown to grey SAND (SC) with clay, dry, dense, saprolite	12	SC	NR			
822	58								
	59						0.0		
820	60								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 16.42
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
820	61								
			Tan GRANITIC GNEISS, dry, highly weathered	13	SC	NR	0.0		
818	62								
	63								
	64								
816	65								
	66		Greenish grey GRANITIC GNEISS, dry, large rock fragments, more competent	14	SC	NR	0.0		
814	67		Greenish grey GRANITIC GNEISS, with clay, dry, some gneiss rock fragments, banding, highly weathered						
	68								
812	69			15	SC	NR	0.0		Secondary 10-inch outer steel casing set to 70 feet bgs. Secured with concrete.
	70								
810	71								
	72								
808	73								
	74			16	SC	NR	0.0		
806	75								
	76								
804	77								
	78								
802	79								
	80								
800	81		Light grey GRANITIC GNEISS, dry, 2- to 4-inch diameter rock fragments, pulverized						Mechnanical stress on bedrock suspect
798	82								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 16.42
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
796	83 84 85			17	SC	NR			Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 75 to 85 feet bgs.

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): 16.42
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19C

EHS Support consider it done

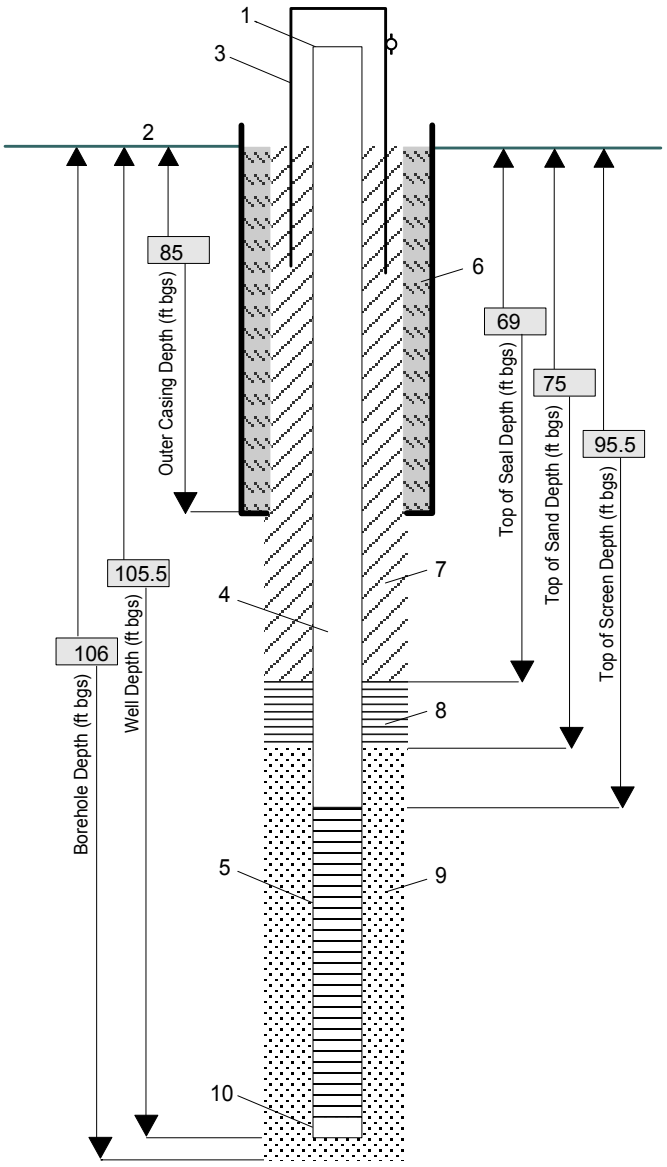
EHS Support *consider it done*

Well ID: MW-19D

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236386.749	Northing: 1279953.241
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Vernon Scott	Logged by: Jonathan Waddell



Boring Diameter (in.) 10 and 6

Outer Casing Installation Date	8/29/2014
Well Installation Date	9/2/2014
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	880.080
2. Ground Surface Elevation (ft msl)	880.350
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	95.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Outer Casing	
a) Material	Steel
b) Diameter (in.)	6
c) Length (ft.)	85
d) Grout Type	Cement
7. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
8. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
9. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
10. Sump or End Cap Length (ft.)	0.3
11. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	9/4/2014
Static Water Level 15.7	(bTOC) or bgs

Comments:

10-inch borehole cored for setting 6-inch permanent steel secondary casing. Equipped with 2-inch expansion cap and lock.

Completed by: Jonathan Waddell

EHS Support consider it done

Boring: MW-19D

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 8/27/2014	Date Finished: 9/2/2014	
Ground Surface Elevation (ft msl): 880.35	Top of Casing Elevation (ft msl): 880.08	
GASP West Zone Easting: 1279953.241 Northing: 2236386.749	Total Depth (ft): 106	
Drilling Method: Sonic	Borehole Diameter (in): 10 and 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6x10 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Vernon Scott	Logged by: Jonathan Waddell	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
880	0		Asphalt						Hand auger to clear utilities to 4 feet bgs
			Orange SILTY FINE SAND (SM), dry, medium dense, non plastic, some red staining (fill)	1	HA	4.0			
878	2								
	4		Reddish orange SILTY FINE SAND (SM) with fine to coarse gravel, dry, loose, non plastic. Grades to light brown near 6 feet bgs.	2	SC	3.0			
876									
	6		Light brown with red and white SILTY FINE SAND (SM) with fine to coarse gravel, dry, loose, non plastic. Cobbles. Color varies to orange to red to light brown. No gravel at 7 feet bgs.						
874									
	8								
872			Red SILTY FINE SAND (SM), dry, medium stiff to stiff, low plasticity, cohesive. White banding. Orange banding observed at 11, and 16 to 17 feet bgs. White mineral band and iron oxidation at 24 feet bgs. Trace lenses of pink sand.						
	10								
870									
	12			3	SC	10.0			
868									
	14								
866									
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19D

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
864	16		Red SILTY FINE SAND (SM), dry, medium stiff to stiff, low plasticity, cohesive. White banding. Orange banding observed at 11, and 16 to 17 feet bgs. White mineral band and iron oxidation at 24 feet bgs. Trace lenses of pink sand.	3	SC	10.0			
	17								
	18								
862	19								
	20								
860	21								
	22			4	SC	10.0			
858	23								
	24								
856	25								
	26								
854	27		Red, white, and black CLAY (CL), trace sand and medium gravel, moist, with dark mineral bands, medium stiff, medium plasticity, cohesive, micaceous, chlorite, and white mineral bands						
	28								
852	29								
	30								
850	31								
	32								
848	33								
	34								
846	35								
	36								
844	37			5	SC	5.6			
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19D

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
842	39								
	40		Brown with white banded SANDY SILT (ML), slightly moist, with dark banding, medium stiff, medium plasticity, cohesive. Mica, biotet, chlorite, medium sand-sized quartz. Reddish-orangish brown (iron) from 46 to 47 feet bgs. White quartz banding.						
840	41								
	42								
838	43								
	44								
836	45								
	46								
834	47		Reddish brown FINE TO MEDIUM GRAVEL AND SAND (GW), moist to wet, loose, non plastic, micaceous						
	48								
832	49								
	50								
830	51		Dark gray to black SANDY CLAY (CL), trace pebbles, moist, medium stiff, low to moderate plasticity, micaceous, slight greenish tone	6	SC	9.0			
	52								
828	53								
	54								
826	55								
	56								
824	57		Dark brown CLAYEY SAND (SC), wet, loose, low plasticity, micaceous. Grades to tan and broken rock.						
	58								
822	59								
	60								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19D

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
820	61		Tan SAND (SW) with gravel and rock, dry, non plastic, micaceous, noted iron staining	7	SC	9.1			
818	62								
	63								
	64								
816	65								
	66		Tan GRANITIC GNEISS, competant, medium grained texture, iron staining at 68 feet bgs						
814	67								
	68		Black GRANITIC GNEISS, competant, biotite schist, gravel, fractured, fine grained texture, foliated, some feldspar bands, iron staining at 71.5 feet bgs. Mostly mechanical fractures.	8	SC	4.0			
812	69								
	70								
810	71								
	72		Dark grading to light GRANITIC GNEISS, strong to very strong, micaceous. Grades from fine-grained mafic and gneiss with schist to medium-grained granitic rock, schistose, medium grained at depth						
808	73								
	74								
806	75								
	76								
804	77								
	78								
802	79			9	SC	4.4			
	80								
800	81								
	82								
798									

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-19D

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
798	83								
	84								
796	85								Secondary outer steel casing set to 85 feet bgs. Secured with concrete. Continued drilling to depth using 4x6 sonic core drilling.
	86		GRANITIC GNEISS, schistose, highly fractured. Biotite. White from 90.5 to 91.5 feet bgs. Iron staining from 92.5 to 95.5 feet bgs.						
794	87								
	88								
792	89								
	90								
790	91			10	SC	NR			
	92								
788	93								
	94								
786	95								
	96		GRANITIC GNEISS, highly fractured. Iron staining from 96.5 to 97 feet bgs. White at 99 feet bgs and 105 feet bgs. Prevalent foliation from 101 to 104 feet bgs of gneiss, schist, and biotite.						
784	97								
	98								
782	99								
	100								
780	101			11	SC	NR			
	102								
778	103								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 95.5 to 105.5 feet bgs.
	104								
776									

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19D

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	105								
	106								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 15.70
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-19D

EHS Support consider it done

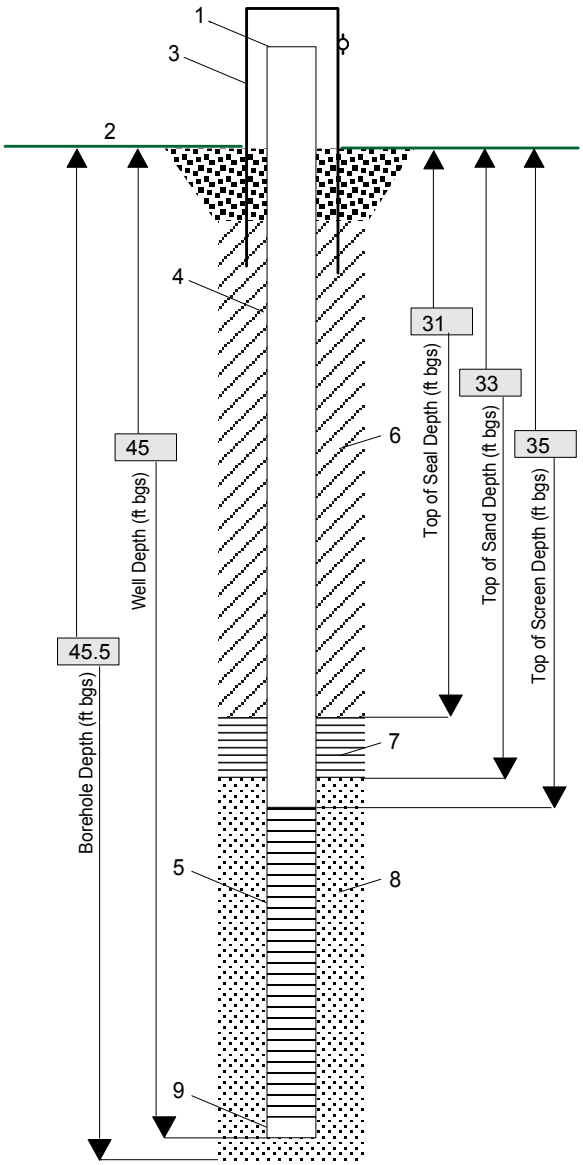
EHS Support *consider it done*

Well ID: MW-20C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236113.374	Northing: 1280248.661
Drilling Co.: Boart Longyear	Drilling Method: Sonic
Drilled by: Jeremy Triepke	Logged by: Kris Spikes

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	12/4/2012
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	875.444
2. Ground Surface Elevation (ft msl)	875.750
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	35
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	12/5/2012
Static Water Level	22.05 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock. Southside of unnamed creek.

Completed by: Kris Spikes

EHS Support consider it done

Boring: MW-20C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 12/3/2012	Date Finished: 12/4/2012	
Ground Surface Elevation (ft msl): 875.75	Top of Casing Elevation (ft msl): 875.44	
GASP West Zone Easting: 1280248.661 Northing: 2236113.374	Total Depth (ft): 45.5	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Boart Longyear	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Jeremy Triepke	Logged by: Kris Spikes	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	0		Asphalt						
			Grey GRANITIC GNEISS, competant, fresh weathering, discontinuities 1 to 6 inches apart						
874	2			1	SC	NR	0.0		
872	4								
870	6								
			Little infilling between fractures. Mafic mineralization noted at fracture surfaces.						
868	8								
866	10			2	SC	NR	0.0		
864	12								
862	14								
860	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 22.05
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-20C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Little infilling between fractures. Mafic mineralization noted at fracture surfaces.						
	17								
858	18								
	19								
856	20								
	21			3	SC	NR	0.0		
			Weak						
854	22								
	23								
852	24								
	25								
850	26						0.0		
	27								
848	28								
			Mafic						
	29								
846	30			4	SC	NR			
	31								
844	32								
	33								
842	34								
	35								
840	36								
	37								
838	38								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 22.05
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-20C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
836	39			5	SC	NR			Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 35 to 45 feet bgs.
	40								
	41								
834	42								
	43								
832	44								
	45								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 22.05
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-20C

EHS Support consider it done

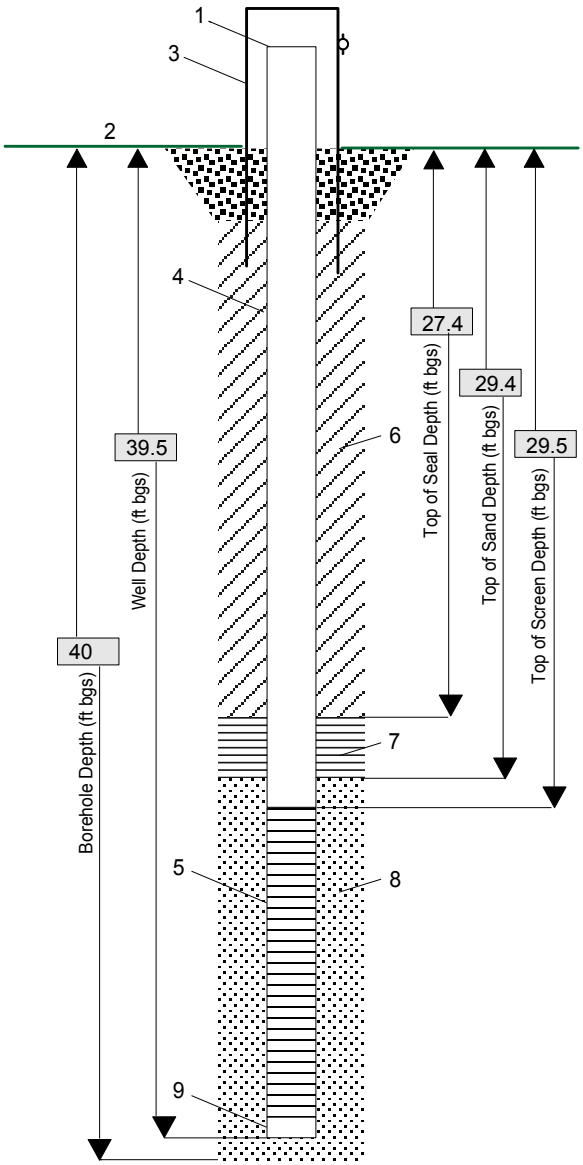
EHS Support *consider it done*

Well ID: MW-21B

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2235996.082	Northing: 1279878.704
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Vernon Scott	Logged by: Jonathan Waddell

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	8/30/2014
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	871.400
2. Ground Surface Elevation (ft msl)	871.740
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	29.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	9/3/2014
Static Water Level	NR (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Jonathan Waddell

EHS Support consider it done

Boring: MW-21B

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 8/29/2014	Date Finished: 8/30/2014	
Ground Surface Elevation (ft msl): 871.74	Top of Casing Elevation (ft msl): 871.40	
GASP West Zone Easting: 1279878.704 Northing: 2235996.082	Total Depth (ft): 40	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Vernon Scott	Logged by: Jonathan Waddell	EHS Support PM: Michelle Stayrook

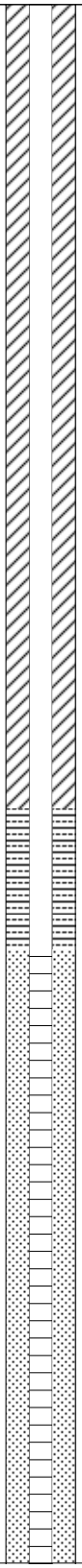
Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	0		Blind drill to depth. Refer to MW-21C for lithology.						
870	2								
868	4								
866	6								
864	8								
862	10								
860	12								
858	14								
856	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-21B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Blind drill to depth. Refer to MW-21C for lithology.						
	17								
854	18								
	19								
852	20								
	21								
850	22								
	23								
848	24								
	25								
846	26								
	27								
844	28								
	29								
842	30								
	31								
840	32								
	33								
838	34								
	35								
836	36								
	37								
834	38								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 29.5 to 39.5 feet

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-21B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
832	39 40								bgs.

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-21B

EHS Support consider it done

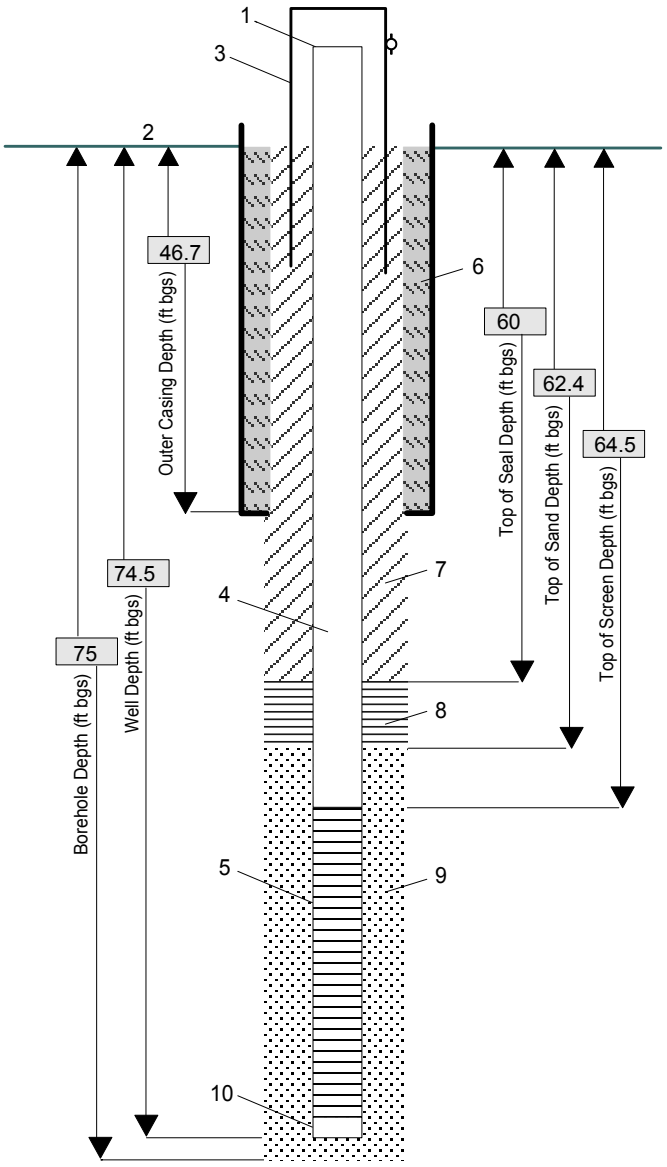
EHS Support *consider it done*

Well ID: MW-21C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2235995.793	Northing: 1279873.218
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Vernon Scott	Logged by: Jonathan Waddell

Sketch Map



Boring Diameter (in.) 10 and 6

Outer Casing Installation Date	8/29/2014
Well Installation Date	8/30/2014
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	871.410
2. Ground Surface Elevation (ft msl)	871.760
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	64.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Outer Casing	
a) Material	Steel
b) Diameter (in.)	6
c) Length (ft.)	46.7
d) Grout Type	Cement
7. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
8. Seal	
a) Manufacturer/Type	Cetco Pure Gold
b) Quantity	-
9. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
10. Sump or End Cap Length (ft.)	0.3
11. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	9/4/2014
Static Water Level 14.1	(bTOC) or bgs

Comments:

10-inch borehole cored for setting 6-inch permanent steel secondary casing. Equipped with 2-inch expansion cap and lock.

Completed by: Jonathan Waddell

EHS Support consider it done

Boring: MW-21C

Well ID Address: 8639 Tara Blvd.
Parcel ID #: 13242D B001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 8/26/2014	Date Finished: 8/30/2014	
Ground Surface Elevation (ft msl): 871.76	Top of Casing Elevation (ft msl): 871.41	
GASP West Zone Easting: 1279873.218 Northing: 2235995.793	Total Depth (ft): 75	
Drilling Method: Sonic	Borehole Diameter (in): 10 and 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6x10 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Vernon Scott	Logged by: Jonathan Waddell	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	0		Asphalt						Hand auger to clear utilities to 7 feet bgs
870	2		Reddish brown SILTY CLAY (CL), some fine gravel and sand, dry to moist, stiff, medium plasticity, cohesive, some wood and PVC fragments (fill).	1	HA	7.0	0.6		
868	4		Orange brown SILTY CLAY (CL), dry, stiff, low to medium plasticity. Coarse gravel at 5 feet bgs.				1.6		
866	6		Dark red SILTY CLAY (CH), dry to moist, stiff, medium to high plasticity, cohesive, mottled						
			Orangish brown SILTY CLAY (CL), dry to moist, stiff, low to medium plasticity, cohesive				0.6		
864	8		Reddish orange SILTY CLAY (CH), moist to wet, stiff, medium to high plasticity, cohesive. Becomes dry at 12 feet bgs with some banding.						
862	10								
860	12		Red SILTY CLAY (CL), dry to damp, stiff, medium plasticity, cohesive, micaceous, some dark mineral bands and quartz	2	SC	10.0	0.3		
858	14								
856	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Red SILTY CLAY (CL), dry to damp, stiff, medium plasticity, cohesive, micaceous, some dark mineral bands and quartz	2	SC	10.0			
	17						0.5		
854	18		Reddish brown to orange SILTY CLAY (CL), moist, stiff, medium plasticity, cohesive. White sand with platey minerals at 22 and 24 feet bgs.						
	19								
852	20								
	21								
850	22			3	SC	9.8	0.5		
	23		Dark orange CLAYEY SILT (ML), moist, stiff, low to medium plasticity, cohesive. Bands of red mica flakes, white sand, and dark mineral coloration.						
848	24								
	25								
846	26								
	27						0.7		
844	28		Dark orange, grey, and red SILTY CLAY (CL), moist to wet, medium stiff, low to medium plasticity, cohesive						
	29								
842	30								
	31								
840	32			4	SC	10.0	0.7		
	33		Light grey to dark grey MEDIUM SAND (SP) with small pebbles, dry, non to low plasticity						
838	34								
	35								
836	36								
	37						1.0		
834	38		Dark grey FINE GRAVELLY CLAY (CH), moist, stiff, medium to high plasticity, cohesive, micaceous. Some dark mineral						

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-21C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	39		bands.						
832	40		Grey to dark gray GRANITIC GNEISS, dry, very loose, low plasticity, weak. Fine to medium sand (pulverized rock), feldspar, and biotite.	5	SC	6.0	0.1		
	41								
830	42								
	43		Dark grey GRANITIC GNEISS, wet, competant, fresh, nonfoliated feldspathic granite with biotite mica, some banding. Staining observed on one band. Mechanical breaks.				0.0		
828	44								
	45			6	SC	3.0			
826	46						NR		
	47								
824	48		Greyish white GRANITIC GNEISS, dry, strong, generally non foliated. Dark minerals (biotite), some mica flakes, fine to medium grain texture, slight banding of dark minerals. Mechanical breaks.						
	49						NR		
822	50								
	51								
820	52						NR		
	53			7	SC	6.3			
818	54								
	55		Greyish white GRANITIC GNEISS. Light bands at 56 feet bgs. Iron staining at 57 feet bgs. Minor weathering at 58 feet bgs.				NR		
816	56								
	57								
814	58		Greyish white GRANITIC GNEISS, dry, strong, slightly foliated. Visible mica and biotite, fine to medium gravel. Light mineral banding at 63 feet bgs. Large quartz intrusion at 64 feet bgs. Becomes lighter in color with depth.				NR		
	59								
812	60								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-21C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	61			8	SC	6.1	NR		
810	62								
	63								
808	64						NR		
	65		Greyish white GRANITIC GNEISS, dry, competant. Lighter matrix grading to darker matrix. Iron staining from 68 to 72 feet bgs. Weak rock at 68.5, 70, and 72 to 73 feet bgs. Biotite gneiss in bottom 7 feet of core with light banding quartz and feldspar. Some chlorite at 73 feet bgs.						
806	66								
	67						NR		
804	68								
	69								
802	70			9	SC	10.0	NR		
	71								
800	72								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 64.5 to 74.5 feet bgs.
	73						NR		
798	74								
	75								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.10
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-21C

EHS Support consider it done

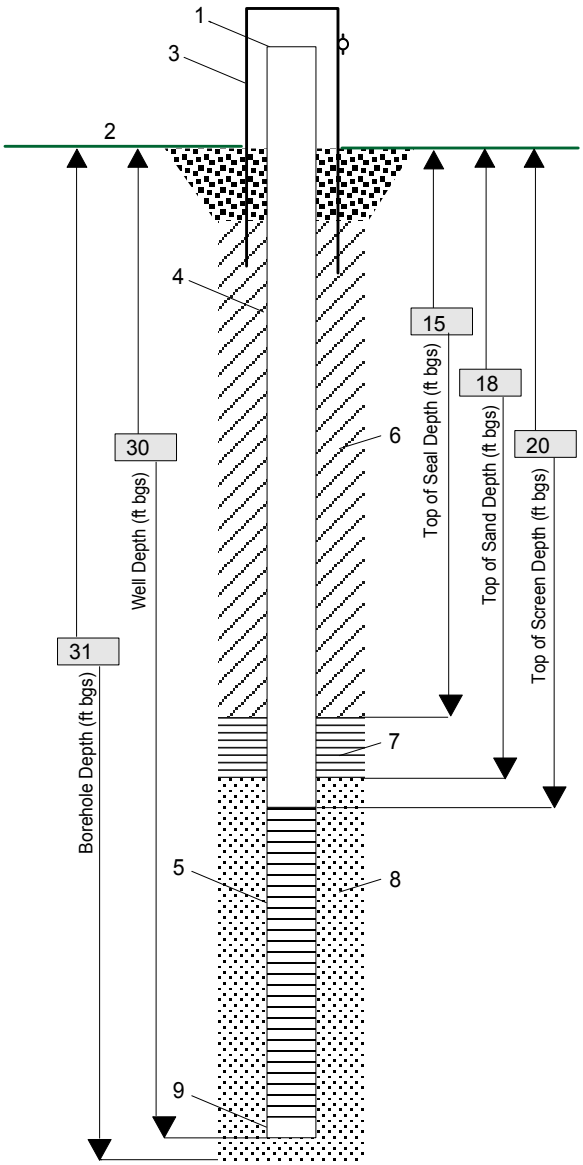
EHS Support *consider it done*

Well ID: MW-22A

Well ID Address: 177 College Str.
Parcel ID #: 13242D C001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236968.133	Northing: 1279884.097
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Vernon Scott	Logged by: Philip Foster

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	9/3/2014
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	883.000
2. Ground Surface Elevation (ft msl)	883.540
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	20
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	9/4/2014
Static Water Level	14.5 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Philip Foster

EHS Support consider it done

Boring: MW-22A

Well ID Address: 177 College Str.
Parcel ID #: 13242D C001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 9/3/2014	Date Finished: 9/4/2014	
Ground Surface Elevation (ft msl): 883.54	Top of Casing Elevation (ft msl): 883.00	
GASP West Zone Easting: 1279884.097 Northing: 2236968.133	Total Depth (ft): 31	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Vernon Scott	Logged by: Philip Foster	EHS Support PM: Michelle Stayrook

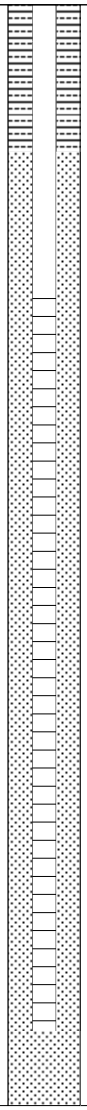
Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	0		Blind drill to depth. Refer to MW-22B for lithology.						
882	2								
880	4								
878	6								
876	8								
874	10								
872	12								
870	14								
868	16								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.50
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22A

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Blind drill to depth. Refer to MW-22B for lithology.						
	17								
866									
	18								
	19								
864									
	20								
	21								
862									
	22								
	23								
860									
	24								
	25								
858									
	26								
	27								
856									
	28								Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 20 to 30 feet bgs.
	29								
854									
	30								
	31								

Notes:
Depth to water in borehole during drilling (ft bgs): NR
Depth to water in borehole after drilling (ft bTOC): 14.50
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22A

EHS Support consider it done

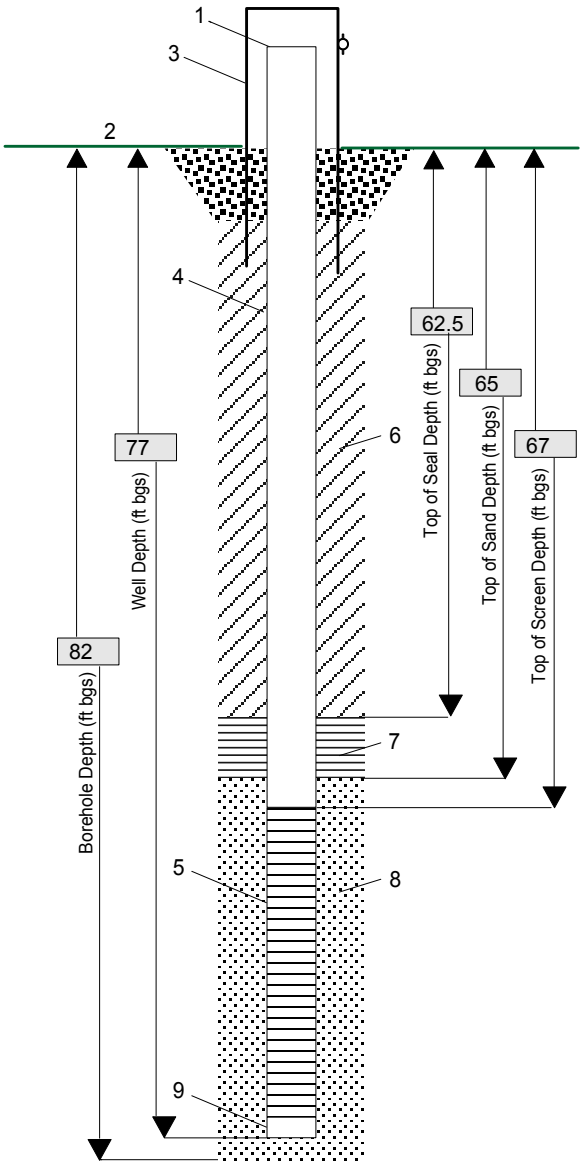
EHS Support *consider it done*

Well ID: MW-22B

Well ID Address: 177 College Str.
Parcel ID #: 13242D C001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236973.609	Northing: 1279883.763
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Vernon Scott	Logged by: Philip Foster

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	9/3/2014
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	883.290
2. Ground Surface Elevation (ft msl)	883.610
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2' Square
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	67
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Quikrete Type I/II
b) Description/Formula	-
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Quick-Gel Halliburton
b) Quantity	-
8. Filter Pack	
a) Manufacturer	Standard Sand & Silica Co
b) Filter Pack Size	-
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.3
10. Drilling Fluid	
a) Additive	-
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	9/4/2014
Static Water Level	NR (bTOC) or bgs

Comments:
Borehole backfilled from 78 to 82 feet with bentonite chips. Equipped with 2-inch expansion cap and lock.

Completed by: Philip Foster

EHS Support consider it done

Boring: MW-22B

Well ID Address: 177 College Str.
Parcel ID #: 13242D C001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 9/3/2014	Date Finished: 9/4/2014	
Ground Surface Elevation (ft msl): 883.61	Top of Casing Elevation (ft msl): 883.29	
GASP West Zone Easting: 1279883.763 Northing: 2236973.609	Total Depth (ft): 82	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Sonic	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Vernon Scott	Logged by: Philip Foster	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	0		Asphalt						
			Orange SANDY SILT (ML) with clay, dry, very stiff						
882	2			1	HA	5.0			
880	4		Orange SILTY FINE SAND (SM), dry, loose, micaceous						
878	6			2	SC	NR			
876	8								
			Light brown to brown SILTY FINE SAND (SM), dry, loose						
874	10								
			Orange FINE SANDY SILT (ML), dry to damp, loose, micaceous						
872	12			3	SC	NR			
			Brown FINE SANDY SILT (ML), dry to damp, loose, micaceous						
870	14								
868	16		Orange to tan FINE SANDY SILT (ML),						

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22B
Page: 1 of 4

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Orange to tan FINE SANDY SILT (ML), moist, soft, trace to little mica						
	17		Brown to dark orange and red SILT (ML), damp, very soft, highly micaceous						
866	18			4	SC	NR			
	19								
864	20		Grey CLAYEY SILT (ML), moist, soft, highly micaceous						
	21								
862	22			5	SC	NR			
	23		Tan to light orange CLAYEY FINE TO COARSE SAND (SC) with silt, moist, medium dense						
860	24		Tan to light brown SANDY CLAY (CL), some silt, moist, soft. Wet at 25 feet bgs. Gray at 26 feet bgs.						
	25								
858	26			6	SC	NR			
	27		Light orange FINE SAND (SP), wet to saturated, loose. Becomes very fine grained at 31 feet bgs.						
856	28								
	29								
854	30			7	SC	NR			
	31								
852	32		White with gray SILT (ML), moist to dry, soft, highly weathered, highly micaceous						
	33								
850	34		Orange CLAYEY SILT (ML), dry to moist, soft						
	35		Orange to brown SILT (ML), damp, soft, micaceous						
848	36		Gray to brown CLAYEY SILT (ML) with fine to medium sand, damp, soft, subangular to angular						
	37		Recovery lost above surface during extraction.	8	SC	NR			
846	38								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	39								
844	40								
	41		Alternating gray and orange SILT (ML), trace clay, damp, soft, micaceous						
842	42			9	SC	NR			
	43								
840	44								
	45								
838	46								
	47			10	SC	NR			
836	48								
	49								
834	50								
	51								
832	52		Gray to light brown CLAYEY SILT (ML), dry, medium stiff, micaceous	11	SC	NR			
	53								
830	54		White CLAYEY SILT (ML), dry to damp, medium stiff, some gray coloring, saprolite						
	55								
828	56								
	57								
826	58		Brown to light grey VERY FINE TO FINE SANDY CLAY (CL), wet, medium stiff to soft. Becomes gray to orange at 61 feet bgs.	12	SC	NR			
	59								
824	60								

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
822	61–62			13	SC	NR			
	62–63		SILTY CLAY (CL), dry, soft, brittle, micaceous						
820	63–64		Brown to gray CLAY (CL), dry, stiff, brittle						
	64–65		Gray to brown CLAYEY SILT (ML), damp, micaceous						
818	65–66		FINE TO MEDIUM SAND (SP), trace to little silt, damp, micaceous. Decreasing silt with depth.	14	SC	NR			
816	66–67								
	67–68								
	68–69								
814	69–70								
	70–71			15	SC	NR			
	71–72		Banded GNEISS, mica, thickly foliated						
812	72–73								
	73–74		White, green, and gray GNEISS, damp, notable saprolite and mica foliation						
810	74–75								
	75–76			16	SC	NR			
808	76–77		Brown and tan SILTY GNEISS, damp, mica						
	77–78								
806	78–79		Dark GRANITIC GNEISS, foliated. Granite, feldspar, muscovite, quartz, pegmatic crystals noted at 81 feet bgs.						
	79–80								
804	80–81			17	SC	NR			
	81–82								
802									

Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 67 to 77 feet bgs.

Notes:
Depth to water in borehole during drilling (ft bgs): 25.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-22B

EHS Support consider it done

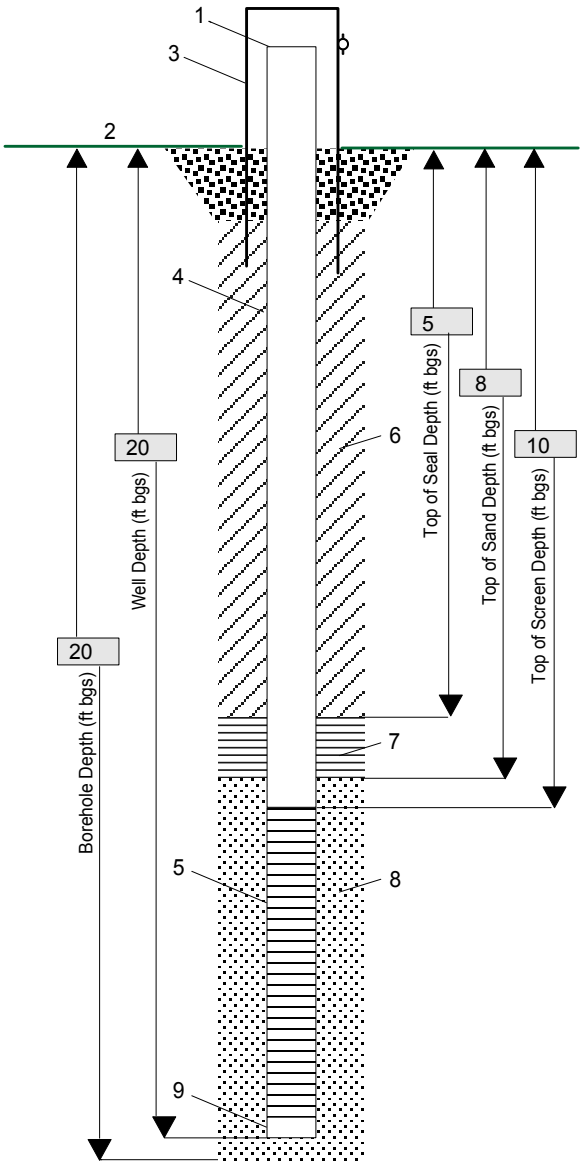
EHS Support *consider it done*

Well ID: MW-23A

Well ID Address: 117 Fayetteville Rd.
Parcel ID #: 13241C G001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2237031.249	Northing: 1280336.876
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Matt Pope	Logged by: Pat Peterson

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	06/13/2015
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	888.100
2. Ground Surface Elevation (ft msl)	888.300
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2'
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Portland Cement
b) Description/Formula	94 lb/6 gal
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Bentonite
b) Quantity	-
8. Filter Pack	
a) Manufacturer	-
b) Filter Pack Size	Sand
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.1
10. Drilling Fluid	
a) Additive	Water
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	6/13/2015
Static Water Level	~ 13 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Pat Peterson

EHS Support consider it done

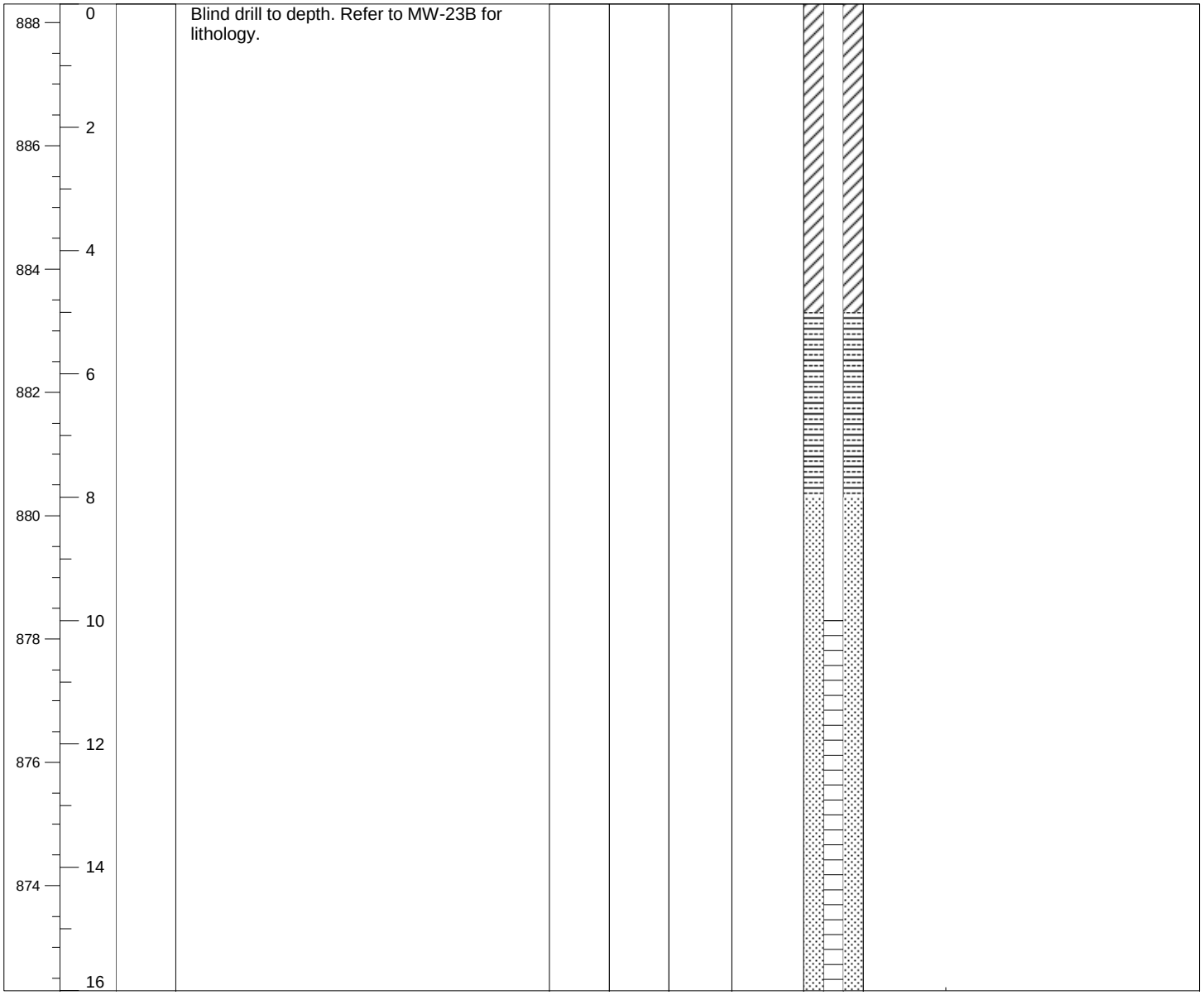
Boring: MW-23A

Well ID Address: 117 Fayetteville Rd.
Parcel ID #: 13241C G001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 6/12/2015	Date Finished: 6/13/2015	
Ground Surface Elevation (ft msl): 888.30	Top of Casing Elevation (ft msl): 888.10	
GASP West Zone Easting: 2237031.249 Northing: 1280336.876	Total Depth (ft): 20	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Geoprobe	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Matt Pope	Logged by: Pat Peterson	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
888	0		Blind drill to depth. Refer to MW-23B for lithology.						
886	2								
884	4								
882	6								
880	8								
878	10								
876	12								
874	14								
	16								

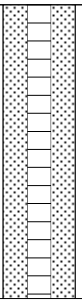


Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-23A

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
872	16		Blind drill to depth. Refer to MW-23B for lithology.						Monitoring well set on 6/13/2015. Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 10 to 20 feet bgs.
	17								
	18								
870	19								
	20								

Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-23A

EHS Support consider it done

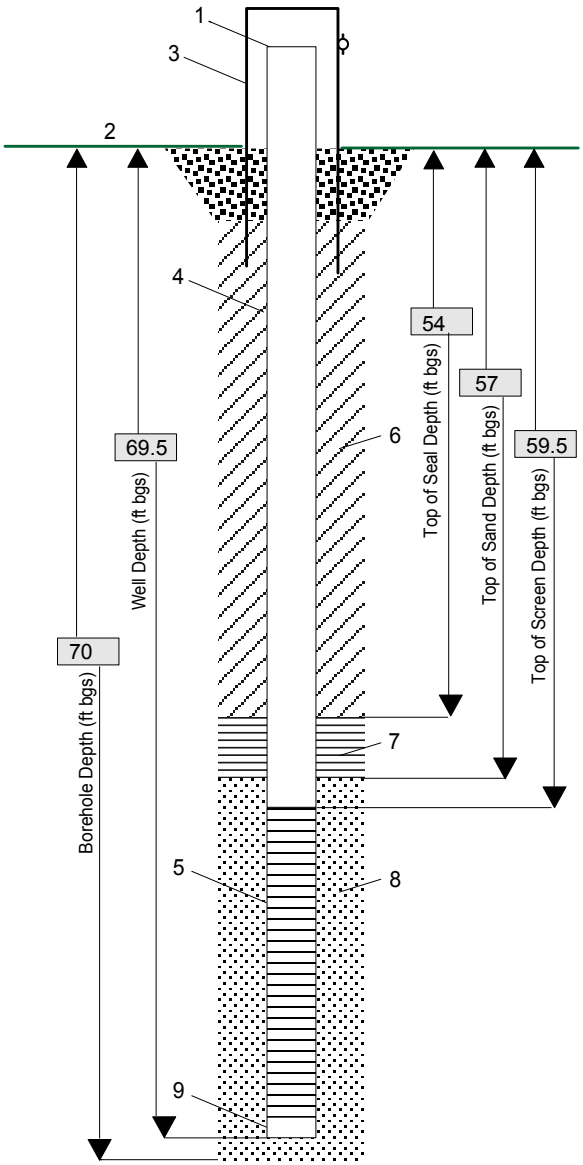
EHS Support *consider it done*

Well ID: MW-23B

Well ID Address: 117 Fayetteville Rd.
Parcel ID #: 13241C G001

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2237032.066	Northing: 1280344.298
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Matt Pope	Logged by: Pat Peterson

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	06/13/2015
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	888.230
2. Ground Surface Elevation (ft msl)	888.400
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	2' x 2'
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	59.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Portland Cement
b) Description/Formula	94 lb/6 gal
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Bentonite
b) Quantity	-
8. Filter Pack	
a) Manufacturer	-
b) Filter Pack Size	Sand
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.1
10. Drilling Fluid	
a) Additive	Water
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	6/13/2015
Static Water Level	~ 40 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Pat Peterson

EHS Support consider it done

Boring: MW-23B

Well ID Address: 117 Fayetteville Rd.
Parcel ID #: 13241C G001

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 6/12/2015	Date Finished: 6/13/2015	
Ground Surface Elevation (ft msl): 888.40	Top of Casing Elevation (ft msl): 888.23	
GASP West Zone Easting: 2237032.066 Northing: 1280344.298	Total Depth (ft): 70	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Geoprobe	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Matt Pope	Logged by: Pat Peterson	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
888	0		Strong brown (7.5YR 4/6) SILT (ML) topsoil, moist				0.0		
			Strong brown (7.5YR 6/6) SANDY CLAY (CH), wet, soft, plastic. Perched water at 2.5 feet bgs.						
886	2						0.0		
	4		Yellowish red (5YR 5/6) CLAYEY SILT (ML), moist, soft, non plastic, laminated. Wet at 10 feet. Color change to weak red 10YR 5/4.	1	SC	10.0	0.0		
884									
882	6						0.0		
880	8						0.0		
878	10						0.0		
876	12						0.0		
874	14			2	SC	10.0	0.0		
	16								

Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-23B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
872	16		Yellowish red (5YR 5/6) CLAYEY SILT (ML), moist, soft, non plastic, laminated. Wet at 10 feet. Color change to weak red 10YR 5/4.				0.0		
	17								
	18			2	SC	10.0	0.0		
870	19		Reddish yellow (7.5YR 4/6) SILT (ML), little sand, wet, non plastic. Color varies with depth.						
	20						0.0		
868	21								
	22						0.0		
866	23								
	24						0.0		
864	25			3	SC	10.0			
	26						0.0		
862	27								
	28						0.0		
860	29								
	30								No return from 30 to 50 feet.
858	31								
	32								
856	33								
	34								
854	35			4	SC	0.0	NA		
	36								
852	37								
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-23B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
850	39								
	40								
848	41								
	42								
846	43								
	44								
844	45			5	SC	0.0	NA		
	46								
842	47								
	48								
840	49								
	50		Light yellowish brown (2.5Y 6/3) FINE SANDY SILT (ML), wet, non plastic, blocky				0.0		
838	51								
	52						0.0		
836	53								
	54						0.0		
834	55			6	SC	10.0			
	56						0.0		
832	57								
	58						0.0		
830	59								
	60								

Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

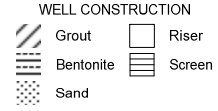
WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-23B

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
828	61						0.0		
	62								
826	63			7	SC	5.0	0.0		
	64								
824	65						0.0		
			Grayish brown (10YR 5/2) MEDIUM SAND (SM), little fines, wet						
	66								
822	67						0.0		Monitoring well set on 6/13/2015. Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 59.5 to 69.5 feet bgs.
	68			8	SC	5.0			
820	69						0.0		
			Black and white BIOTITE GNEISS, weathered. Gneiss becomes competent at 70 feet bgs.						
	70						0.0		

Notes:
Depth to water in borehole during drilling (ft bgs): 10.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88



Boring: MW-23B

EHS Support consider it done

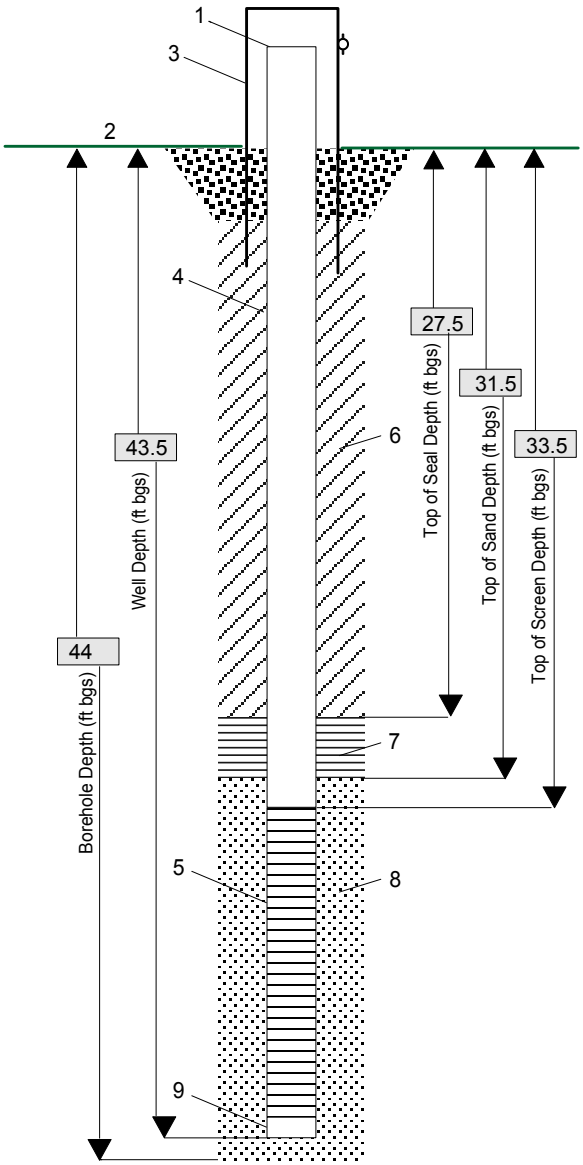
EHS Support *consider it done*

Well ID: MW-24C

Well ID Address: 8557 Tara Blvd.
Parcel ID #: 13242D A016A

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798	
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia	
Client / Owner: Ashland Inc.	Project Number: C00342_2015-300
GASP West Zone Easting: 2236143.381	Northing: 1280517.982
Drilling Co.: Cascade Drilling	Drilling Method: Sonic
Drilled by: Matt Pope	Logged by: Pat Peterson

Sketch Map



Boring Diameter (in.) 6

Well Installation Date	06/10/2015
Elevation Datum	NAVD88
1. Top of Casing Elevation (ft msl)	884.570
2. Ground Surface Elevation (ft msl)	884.900
3. Wellhead Cover Type	
a) Cover (Flush or Above Ground)	Flushmount
b) Concrete Pad Dimensions (ft.)	3' x 3'
4. Well Casing	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	33.5
5. Well Screen	
a) Material	SCH 40 PVC
b) Diameter (in.)	2
c) Length (ft.)	10
d) Type (slotted or wound)	Slotted
e) Opening Size (in.)	0.01
6. Grout	
a) Type	Portland Cement
b) Description/Formula	94 lb/6 gal
c) Quantity	-
7. Seal	
a) Manufacturer/Type	Bentonite
b) Quantity	-
8. Filter Pack	
a) Manufacturer	-
b) Filter Pack Size	Sand
c) Quantity	-
9. Sump or End Cap Length (ft.)	0.1
10. Drilling Fluid	
a) Additive	Water
b) Description/Formula	
c) Quantity	
d) Mud Weight	
Well Development Date	6/12/2015
Static Water Level	~ 13 (bTOC) or bgs

Comments:
Equipped with 2-inch expansion cap and lock.

Completed by: Pat Peterson

EHS Support consider it done

Boring: MW-24C

Well ID Address: 8557 Tara Blvd.
Parcel ID #: 13242D A016A

Sketch Map

Project / Site: Alterman Enterprises / Tara Shopping Center HSI 10798		
Location / Address: 8564 Tara Boulevard, Jonesboro, Clayton County, Georgia		
Date Started: 6/9/2015	Date Finished: 6/10/2015	
Ground Surface Elevation (ft msl): 884.90	Top of Casing Elevation (ft msl): 884.57	
GASP West Zone Easting: 2236143.381 Northing: 1280517.982	Total Depth (ft): 44	
Drilling Method: Sonic	Borehole Diameter (in): 6	
Rig Type: Geoprobe	Drilll Bit Diameter (in) / Type: 4x6 Drill Bit String	Client: Ashland Inc.
Drilling Co.: Cascade Drilling	Sampler Diameter (in) / Type: 4-inch Core String	Project Number: C00342_2015-300
Drilled by: Matt Pope	Logged by: Pat Peterson	EHS Support PM: Michelle Stayrook

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
884	0		Asphalt GRAVEL (fill)				0.0		
	2		Yellowish red (5YR 4/6) CLAYEY SILT (ML), moist, non plastic, stiff, trace mica				0.0		
882	4			1	SC	8.0	0.0		
880	6		Balck and white BIOTITE GNEISS, moist, competant, highly fractured, feldspar-filled fractures				0.0		
878	8						0.0		
876	10		Yellowish brown (10YR 5/8) SAPROLITE, weathered, some mica pieces				0.0		
874	12			2	SC	10.0	0.0		
872	14						0.0		
870	16		Yellowish brown (10YR 4/6) CLAYEY SILT (ML), trace fine sand, moist, blocky, increase in mica and sand with depth						

Notes:
Depth to water in borehole during drilling (ft bgs): 38.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Bentonite
Sand
Riser
Screen

Boring: MW-24C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
	16		Yellowish brown (10YR 4/6) CLAYEY SILT (ML), trace fine sand, moist, blocky, increase in mica and sand with depth	2	SC	10.0	0.0		
868	17								
	18		Black and white BIOTITE GNEISS, highly weathered, highly fractured, some white feldspar and quartz infilling				0.0		
866	19								
	20						0.0		
864	21								
	22						0.0		
862	23			3	SC	10.0			
	24						0.0		
860	25								
	26		Yellowish brown (10YR 4/6) SAPROLITE, moist, weathered, very micaceous, mostly silt size texture				0.0		
858	27								
	28						0.0		
856	29								
	30						0.0		
854	31								
	32						0.0		
852	33			4	SC	7.0			
	34						0.0		
850	35								
	36		BIOTITE GNEISS, moist, moderately fractured, infilling and more competent from 35 to 38 feet. Some iron staining along 10° dipping fractures from 40 to 44 feet.				0.0		
848	37								
	38								

Notes:
Depth to water in borehole during drilling (ft bgs): 38.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
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Screen
Sand

Boring: MW-24C

EHS Support consider it done

Elevation (ft msl)	Depth (ft)	Lithologic Column	Lithologic Description	Sample Number	Sampler Type	Recovery (ft)	PID (ppm) Field Scan	Well Diagram	Notes
846 844 842	39 40 41 42 43 44			5	SC	6.0	0.0 0.0 0.0 0.0		Monitoring well set on 6/10/2015. Monitoring Well Construction - 2-inch diameter SCH 40 PVC with 0.01-inch slotted screen from 33.5 to 43.5 feet bgs.

Notes:
Depth to water in borehole during drilling (ft bgs): 38.00
Depth to water in borehole after drilling (ft bTOC): NR
Soil classification based on the Unified Soil Classification System (USCS)
Elevation surveyed to NAVD88

WELL CONSTRUCTION
Grout
Riser
Bentonite
Screen
Sand

Boring: MW-24C

EHS Support consider it done