

January 31, 2017

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: <u>Voluntary Remediation Program Semi-Annual Progress Report #9</u> 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 LLC (Ashland), EHS Support LLC (EHS Support) is submitting this Semi-Annual Progress Report for the project referenced above. Pursuant to the VRP application conditional approved letter issued on June 28, 2012, the purpose of this progress report is to provide a summary of activities completed between July and December 2016.

#### **Groundwater Corrective Action Plan**

On March 17, 2016, Ashland submitted a Groundwater Corrective Action Plan (CAP) to the Georgia Department of Natural Resources - Environmental Protection Division (Georgia EPD). Confirmation of public notification of the Groundwater CAP was submitted to the Georgia EPD on April 18, 2016.

On August 22, 2016, a letter was received from Georgia EPD that:

- Commended Ashland and their Consultant for thorough documentation of the conceptual site model and the receptor evaluation presented
- Accepted and approved the screening level ecological risk assessment (SLERA) and surface water risk assessment memo
- Determined that the Groundwater CAP was complete
- Conditionally approved the Groundwater CAP and schedule.

On November 4, 2016, a Revised Groundwater CAP was submitted to Georgia EPD. The Revised Groundwater CAP provided minor corrections including updated Parcel Identification and property ownership information, inclusion of monitoring well MW-15C in corrective action semi-annual monitoring, and tabulated groundwater elevation data from June 29, 2015.

A summary of corrective action activities is provided below. A tabulated summary of professional engineer and geologist time during this reporting period is provided as **Appendix A**.



#### 1.0 CORRECTIVE ACTION ACTIVITIES

This section presents activities completed between November and December 2016 as part of the recently approved Groundwater CAP, and includes the following:

- Supplemental groundwater sampling of upgradient monitoring wells MW-22A/B and MW-23A/B via low-flow/low-stress methodology
- Abandonment of monitoring wells MW-1A/C, MW-3B, MW-4B, MW-6A/B, MW-7C, MW-9B/C, MW-12A, MW-17A, MW-22A/B and MW-23A/B
- Inspection and gauging of all remaining monitoring wells
- Passive Diffusion Bag Deployment
- Redevelopment of monitoring well MW-10B
- Removal of pump tubing obstructing monitoring wells MW-11B and MW-23A
- Concrete pad repairs at several monitoring wells
- Semi-Annual groundwater sampling
- Removal of investigative derived waste.

A detailed summary of corrective action activities is provided below.

## 1.1 Supplemental Monitoring Well Sampling

On November 14, 2016, at the request of Georgia EPD, confirmation groundwater samples were collected from upgradient monitoring wells MW-22A/B and MW-23A/B using low flow purging and sampling techniques in accordance with USEPA Science and Ecosystem Support Division Operating Procedure SESDPROC-301-R3. A copy of the sampling forms is provided in **Appendix B.** Purge water was containerized in a properly-labeled, 55-gallon, DOT-approved, steel drum for subsequent off-site transport and disposal by Nexeo Solutions LLC.

Groundwater samples were packed on ice and submitted to TestAmerica of Savannah, Georgia for analysis of volatile organic compounds (VOCs) using USEPA Method 8260B. Groundwater samples were expedited, upon verbal approval by Georgia EPD on November 11, 2016, to assess whether results were consistent with prior results, and to facilitate proper abandonment of these wells with the other wells scheduled for abandonment. No VOCs were identified in monitoring wells MW-22A/B located east and upgradient of monitoring well cluster MW-13A/B/C. (Refer to **Figure 1**).

Trichloroethene (TCE) was identified in shallow residuum monitoring well MW-23A at a concentration of 4.3 micrograms per liter below the Risk Reduction Standard (RRS) of 5 micrograms per liter during the November 2016 sampling event. TCE was not previously identified in the two prior sampling events conducted in June and October 2015. TCE was not detected in the deep residuum monitoring well (MW-23B) in the November 2016 event or the two prior monitoring events.

A tabulated summary of analytical results overtime for monitoring wells MW-22A/B and MW23A/B is provided as **Table 1**. No analytical or quality issues were noted. An electronic copy of the laboratory analytical report is provided in **Appendix C**.

Georgia EPD approved abandonment of these monitoring wells via verbal communications on November 17, 2016. This approval was based upon the following:

• TCE was detected below the RRS



- Groundwater contour evaluation confirmed that MW-23A remained hydraulically upgradient of the previously-remediated source area
- The focus of corrective action monitoring was downgradient of the site, not upgradient
- Planned building addition (i.e., garage) at the location of well MW-23A.

Well abandonment activities are discussed in **Section 1.2**.

# 1.2 Monitoring Well Abandonment Activities

During the week of November 14, 2016, the fifteen monitoring wells (MW-1A/C, MW-3B, MW-4B, MW-6A/B, MW-7C, MW-9B/C, MW-12A, MW-17A, MW-22A/B and MW-23A/B) were abandoned by Geo Lab Drilling of Dacula, Georgia. Monitoring well MW-1A was observed to have been recently covered by others with asphalt. A jack hammer was used to remove the asphalt and locate the well. Each monitoring well was tremie-grouted in place. Flush mount well vaults and casings were removed and areas were repaired (i.e., concrete, asphalt, soil cover, etc.). Refuse was transported off-site by Geo Lab Drilling.

The monitoring well location map depicting the current well network is provided as **Figure 1**. A copy of the well abandonment records is provided as **Appendix D.** 

# 1.3 Semi-Annual Corrective Action Monitoring

## 1.3.1 Well Inspection and Maintenance

The monitoring well network was inspected between November 14 and November 18, 2016. Each well in the network was visually inspected for integrity including surface cover and well condition. The depth to water and total depth were also recorded for comparison to installation information. A brief summary of corrective action inspection and maintenance activities is provided below.

- MW-10B: Monitoring well MW-10B was redeveloped after the total depth was measured at 39.31 feet, approximately 10 feet above the installation depth at 50 feet. On November 16, 2016, Geo Lab Drilling redeveloped monitoring well MW-10B with a submersible pump capable of freeing the silt. Approximately 35 gallons of water was removed. The total depth was measured at 49.30 feet after redevelopment. Purge water was containerized for subsequent off-site transportation and disposal.
- MW-11B: A potential blockage at 25 feet was identified during the last sampling event in January 2015. On November 15, 2016, Ashland's consultant was able to retrieve pump tubing from the well. Total depth was measured at 57.45 feet, which was consistent with the initial installation depth of 57 feet.
- MW-23B: Unplanned maintenance was performed at monitoring well MW-23B prior to sampling. Downhole pump tubing was removed from the well prior to sampling and subsequent abandonment.
- New concrete pads were installed at MW-10A and MW-10B. In addition, concrete pads were patched on monitoring wells MW-8A/B, MW-14A, and MW-19A/B/C/D. A suitable replacement for well vaults at MW-19A/B/C/D is currently being evaluated.



# 1.3.2 Semi-Annual Monitoring Well Sampling

During the week of November 14, 2016, passive diffusion bag (PDB) samplers were deployed into monitoring wells MW-13A/B, MW-15A/B/C, MW-16A/B/C, MW-19B/C/D, MW-20C, and MW-24C to support semi-annual and annual groundwater monitoring. Passive diffusion bag supplies including laboratory grade de-ionized water were obtained from EON Products, Inc. of Snellville, Georgia. Each sampler was designed with a 24-inch long, 1.75 inch diameter, 500-milliliter volume, poly-mesh sampler and a stainless steel weight (8 or 20 ounce), and suspended within the well screen interval prior to tethering the suspension cable to the expandable well cap at grade.

On December 19, 2016, PDB samplers were removed and groundwater samples were collected from bedrock monitoring wells MW-15C, MW-16C, MW-19C, MW-19D, MW-20C, and MW-24C and deep residuum monitoring well MW-19B. Samples were collected by decanting the water directly from the PDB into laboratory supplied glassware. Groundwater samples were packed on ice and submitted to TestAmerica of Savannah Georgia under chain of custody for analysis of volatile organic compounds using USEPA Method 8260B.

A new PDB sampler and dedicated weight were installed within each of the bedrock monitoring wells in preparation for the annual monitoring event proposed for May/June 2017. Passive diffusion bag supplies including laboratory grade de-ionized water were obtained from EON Products, Inc.

# **Analytical Results**

Tetrachloroethene (PCE), TCE, and cis-1,2-dichlorothene (cis-1,2-DCE) were identified above their respective Type 1 RRS in each bedrock well sampled except monitoring well MW-15C. Monitoring well MW-15C is positioned immediately west of the former dry cleaner site and is indicative of improving groundwater conditions. Overall, concentrations in sampled wells are consistent with previous sampling results (i.e., less than an order of magnitude variance). A tabulated summary of analytical results overtime for each monitoring well is provided as **Table 2**.

Select samples required dilution prior to analysis including MW-16C (10x), MW-19B (2x, 5x), and MW-19D (2x). Reanalysis of samples MW-19B and MW-19D were run outside their hold time. No other analytical or quality issues were noted. An electronic copy of the laboratory analytical report is provided in **Appendix C**.

## 1.3.3 Surface Water Sampling

On December 19, 2016, surface water samples were collected from the unnamed creek west of the former dry cleaner site at the locations identified below:

Sample ID	Location Description	Analysis
OF-2	Storm water outfall near headwater of unnamed creek	VOCs USEPA 8260B
SS-1	Approximately 85 feet west and downstream of OF-1	
SS-2	Approximately 170 feet west and downstream of SS-1	
SS-3	Approximately 550 feet west and downstream of SS-2	

Station SS-3 was initially proposed 800 feet downstream of SS-2 in the Georgia EPD-approved Groundwater CAP. However, during field reconnaissance station SS-3 was relocated to approximately 550



feet from SS-2 (near Jeb Stuart Drive) to minimize access through private properties. Access was conducted off the Clayton County right-of-way 25 feet from the middle of Jeb Stuart Drive within the bounds of public access. This location was visually observed and approved by Georgia EPD on December 19, 2016.

Surface water samples were collected in the following order SS-2, SS-1, OF-2 and SS-3. Surface water samples were collected with a pre-cleaned, glass sampling cup and decanted directly into laboratory supplied bottleware. Surface water samples were packed on ice and submitted to TestAmerica of Savannah Georgia under chain of custody for analysis of VOCs using USEPA Method 8260B.

Tetrachloroethene and cis-1,2-DCE were identified above their respective Georgia Water Quality Standards at each location sampled. Tetrachloroethene was identified above the Chronic Ecological Screening Value of 53 micrograms per liter ( $\mu$ g/L) in surface water sampling SS-1 (at a concentration of 82  $\mu$ g/L), but below this standard in downstream surface water samples SS-2 and SS-3. Concentrations are generally consistent with previous sampling results (i.e., less than an order of magnitude variance). A tabulated summary of analytical results between 2015 and 2016 is provided as **Table 3**. No other analytical or quality issues were noted. An electronic copy of the laboratory analytical report is provided in **Appendix C**.

### **Discussion**

VOC concentrations in surface water continue to be an order of magnitude lower than concentrations identified in upgradient bedrock monitoring wells. While concentration in SS-3 are not suspected to be from cross contamination, surface water samples will be collected from downstream to upstream to minimize the potential for cross contamination in subsequent sampling events.

## 2.0 Vapor Intrusion Scope of Work

A Soil Vapor Intrusion (SVI) Work Plan describing the activities to investigate the potential for soil vapor intrusion was developed. Ashland would like to discuss the approach for the work and data objectives via a conference call prior to initiate field activities.

Ashland has contacted property owners to request access to properties for evaluation. Vapor Intrusion field activities are anticipated to commence upon future discussion with and receiving concurrence from Georgia EPD. A call is being planned in early 2017 to discuss with Georgia EPD the plan moving forward for VI activities at the Tara Shopping Center.

#### **Professional Hours and Certification**

A summary of professional hours from June 1, 2016 through December 31, 2016 is provided in **Appendix A**. Certification of the information presented in this progress report is provided as **Appendix E**.

### **Corrective Action Schedule**

The annual groundwater monitoring event is tentatively scheduled for May/June 2017. This event will include sample of PDB samplers from wells MW-13A/B, MW-15A/B/C, MW-16A/B/C, MW-19B/C/D, MW-20C, and MW-24C. In addition, surface water samples will be collected from the unnamed creek.

Concurrent with PDB sample collection, traditional groundwater sampling methods (i.e., low-flow/low-stress sampling) will be conducted on two select monitoring wells. At the request of Georgia EPD on December 6, 2016, the data from these two wells will be used to evaluate consistency between



concentrations from PDB and low-flow sampling methods, and to determine need for additional traditional groundwater sampling. Traditional groundwater sampling methods are understood to be required by GA EPD for the final, annual sample collection event proposed under the Groundwater CAP in 2019.

## **Compliance Status Report**

Michelle Stayrook

A Compliance Status Report will be submitted on or before June 28, 2017.

If you should have any questions regarding the information presented in this progress report, please contact me at <a href="michelle.stayrook@ehs-support.com">michelle.stayrook@ehs-support.com</a> or 412-807-1494. Alternatively, you can contact Michael Dever at <a href="mbdever@ashland.com">mbdever@ashland.com</a> or 614-790-1586.

Sincerely,

Michelle Stayrook EHS Support

Project Manager

Attachments

cc: Michael Dever, Ashland (email)

Rich Williams, Esq., Ashland (email) Eric Nathan, Tara Retail Holdings, Inc.

Amy Magee, King and Spalding

Jonathan Waddell, P.E. EHS Support (email)



# **TABLES**

An Sample Number   Sampling Date   Type   Risk   Sign   1978-52   Sign   1978-1978   S	Sample ID			MW-22A			MW-22B	
Sampling   Date   Da			680-107535-2		680-132112-3	680-107535-3		680-132112-4
Marrix   M		Tyne 1 Risk	11/19/2014 11:33:00	06/30/2015 14:15:00	11/14/2016 15:30:00	11/19/2014 12:07:00		11/14/2016 16:40:00
Dilation Factor   Dilation F			Water	Water	Water	Water	Water	Water
Page			1	1	1	1	1	1
Low   Low	Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
VOC Constituents of Concern	Volatiles - 8260B							
Tichlorochee   5	VOC Constituents of Concern							
cis-12-Dehloreophene         70         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U	Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U
Ning cloride	Trichloroethene	5	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
1.1.1-Trichforcethane	Vinyl chloride	2	1 U	1 U	1 U	1 U	1 U	1 U
1.1.2.2-Firschforcethane	Other VOC Compounds							
1,1-2-Trichloroethane	1,1,1-Trichloroethane	200	1 U	1 U	1 U	1 U	1 U	1 U
1.1-Dichloroethane	1,1,2,2-Tetrachloroethane	0.2	1 U	1 U	1 U	1 U	1 U	1 U
1.1-Dichloroethene	1,1,2-Trichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropthane	1,1-Dichloroethane	400	1 U	1 U	1 U	1 U	1 U	1 U
1.2-bickloropropane	1,1-Dichloroethene	7	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	1,2-Dichloroethane	5	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	1,2-Dichloropropane	5	1 U	1 U	1 U	1 U	1 U	1 U
4-Methyl-2-pentanone (MIBK)	2-Butanone (MEK)	200			10 U		10 U	
Acetone	2-Hexanone	NA	10 U	10 U	10 U	10 U	10 U	
Benzene	4-Methyl-2-pentanone (MIBK)	200		10 U	10 U	10 U	10 U	10 U
Bromoform	Acetone	400	10 U	10 U	10 U	10 U	10 U	10 U
Bromomethane	Benzene	5	1 U	1 U	1 U	1 U	1 U	1 U
Carbon disulfide         400         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U         2 U	Bromoform	80						
Carbon tetrachloride         5         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U         1         U								
Chlorobenzene	Carbon disulfide							
Chlorodibromomethane   80								
Chloroethane								
Chloroform	Chlorodibromomethane							
Chloromethane								
cis-1,2-Dichloroethene         NA         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U								
cis-1,3-Dichloropropene         80         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U								
Dichlorobromomethane								
Ethylbenzene         3         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U								
Methylene Chloride 100 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5 U 5								
Styrene         1,000         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1								
Toluene								
trans-1,3-Dichloropropene         NA         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U         1 U <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
Xylenes, Total         10,000         2 U         1 U         1 U         2 U         1 U         1 U           Fotal Conc         29.7         2.4								
Total Cone 29.7 2.4								
		10,000	2 U	1 U	1 U		1 0	1 U
	Total Conc See Notes on Last Page					29.7	2.4	



Sample ID			MW-23A			MW-23B		Trip Blank
Lab Sample Number		680-114152-10	680-117982-5	680-132112-2	680-114152-4	680-117982-4	680-132112-1	680-132112-5
Sampling Date	Type 1 Risk	06/30/2015 18:10:00	10/16/2015 10:45:00	11/14/2016 13:45:00	06/30/2015 17:50:00	10/16/2015 12:03:00	11/14/2016 12:45:00	11/14/2016 00:00:00
Matrix	Reduction	Water						
Dilution Factor	Standards	1	1	1	1	1	1	1
Units		μg/L						
Volatiles - 8260B		Low						
VOC Constituents of Concern								
Tetrachloroethene	5	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trichloroethene	5	1 U	1 U	4.3	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
Vinyl chloride	2	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
1,1,2,2-Tetrachloroethane	0.2	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
1,1-Dichloroethane	400	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
1,2-Dichloroethane	5	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
2-Butanone (MEK)	200	10 U						
2-Hexanone	NA	10 U						
4-Methyl-2-pentanone (MIBK)	200	10 U						
Acetone	400	10 U						
Benzene	5	1 U	1 U	1 U	6.7	1 U	1 U	1 U
Bromoform	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	NA	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
Carbon tetrachloride	5	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
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	3.7	1 U	1 U	7.5	1 U	1 U	1 U
Chloromethane	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,2-Dichloroethene	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	80	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	3	1 U	5 U	1 U	1.1	5 U	1 U	1 U
Methylene Chloride	100	5 U	1 U	5 U	5 U	1 U	5 U	5 U
Styrene	1,000	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	100	1 U	1 U	1 U	5.4	1 U	1 U	1 U
trans-1,3-Dichloropropene	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	10,000	1 U	1 U	1 U	1.8	1 U	1 U	1 U
Total Conc See Notes on Last Page		3.7		4.3	22.5			



#### NOTES:

micrograms per liter μg/L

U Value not detected above the laboratory reporting limit.

Yellow Exceedance of Type 1 Risk Reduction Standard for Groundwater.

GC/MS VOA - 8260 Gas Chromatography/Mass Spec Volatile Organic Analysis USEPA Method 8260B



Sample ID			MW-15C			MW-24C	
Lithological Unit			Bedrock MW			Bedrock MW	
Lab Sample Number	Type 1 Risk	680-114574-15	680-117982-2	680-133511-1	680-114236-5	680-117982-3	680-133511-2
Sampling Date	Reduction	07/15/2015 08:54:00	10/16/2015 14:51:00	12/19/2016 07:55:00	07/02/2015 14:50:00	10/16/2015 13:29:00	12/19/2016 08:20:00
Matrix	Standards	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1
Units		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
Volatiles - 8260B							
VOC Constituents of Concern							
Tetrachloroethene	5	10	4.7	3.9	41	20	11
Trichloroethene	5	1.9	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
1,1-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					
2-Hexanone	NA	10 U					
4-Methyl-2-pentanone (MIBK)	200	10 U					
Acetone	400	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	NA	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	400	30	12	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	NA	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	22	12	5.9	1.8	1 U	1 U
Chloromethane	NA	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NA	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	80	1.6	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	1,000	-	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	. 0	1 U	1 U
trans-1,3-Dichloropropene	NA 10,000	1 U	1 U	1 U	1 0	1 U	1 U
Xylenes, Total	10,000	1 U	1 U	1 U	1 0	1 U	1 U
Total VOCs See Notes on Last Page		65.5	28.7	9.8	42.8	20	11



Sample ID		MW-160			MW-19B			MW-19C		
Lithological Unit		Bedrock			Bedrock MW		Bedrock MW			
Lab Sample Number	Type 1 Risk	680-114574-20	680-133511-3	680-107535-9	680-114574-10	680-133511-11	680-107535-8	680-114574-9	680-133511-8	
Sampling Date	Reduction	07/15/2015 14:33:00	12/19/2016 08:45:00	11/19/2014 18:07:00	07/14/2015 15:15:00	12/19/2016 12:40:00	11/19/2014 17:29:00	07/14/2015 14:22:00	12/19/2016 10:35:00	
Matrix	Standards	Water								
Dilution Factor		1	10	5	1	5	2	1	1	
Units		μg/L								
Volatiles - 8260B										
VOC Constituents of Concern										
Tetrachloroethene	5	820 D	800	870	370	180	290	200	190	
Trichloroethene	5	72	80	67	34	45	18	18	24	
cis-1,2-Dichloroethene	70	110	130	100	47	110	33	32	51	
Vinyl chloride	2	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Other VOC Compounds										
1,1,1-Trichloroethane	200	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,1,2,2-Tetrachloroethane	0.2	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,1,2-Trichloroethane	5	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,1-Dichloroethane	400	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,1-Dichloroethene	7	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,2-Dichloroethane	5	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
1,2-Dichloropropane	5	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
2-Butanone (MEK)	200	10 U	100 U	50 U	10 U	50 U	20 U	10 U	10 U	
2-Hexanone	NA	10 U	100 U	50 U	10 U	50 U	20 U	10 U	10 U	
4-Methyl-2-pentanone (MIBK)	200	10 U	100 U	50 U	10 U	50 U	20 U	10 U	10 U	
Acetone	400	10 U	100 U	50 U	10 U	50 U	20 U	10 U	10 U	
Benzene	5	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Bromoform	80	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Bromomethane	NA	5 U	50 U	25 U	5 U	25 U	10 U	5 U	5 U	
Carbon disulfide	400	2 U	20 U	10 U	2 U	10 U	4 U	2 U	2 U	
Carbon tetrachloride	5	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Chlorobenzene	100	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Chlorodibromomethane	80	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Chloroethane	NA	5 U	50 U	25 U	5 U	25 U	10 U	5 U	5 U	
Chloroform	80	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Chloromethane	NA	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
cis-1,3-Dichloropropene	NA	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Dichlorobromomethane	80	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Ethylbenzene	700	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Methylene Chloride	3	5 U	50 U	25 U	5 U	25 U	10 U	5 U	5 U	
Styrene	100	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Toluene	1,000	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
trans-1,2-Dichloroethene	100	2	10 U	5 U	1	5 U	2 U	1.2	1 U	
trans-1,3-Dichloropropene	NA	1 U	10 U	5 U	1 U	5 U	2 U	1 U	1 U	
Xylenes, Total	10,000	1 U	10 U	10 U	1 U	5 U	4 U	1 U	1 U	
Total VOCs		184	1010	1037	82	335	341	251.2	265	
See Notes on Last Page		•	•			•	•			



Sample ID			MW-19D		MW-2	20C	Trip Blank
Lithological Unit			Bedrock MW		Bedrock		Quality Control
Lab Sample Number	Type 1 Risk	680-107535-7	680-114574-11	680-133511-9	680-114236-6	680-133511-4	680-133511-12
Sampling Date	Reduction	11/19/2014 16:14:00	07/14/2015 16:09:00	12/19/2016 10:45:00	07/02/2015 15:57:00	12/19/2016 09:10:00	12/19/2016 15:00:00
Matrix	Standards	Water	Water	Water	Water	Water	Water
Dilution Factor		1	1	1	1	1	1
Units		μg/L	μg/L	μg/L	μg/L	μg/L	μg/L
Volatiles - 8260B							
VOC Constituents of Concern							
Tetrachloroethene	5	94	12	190 H	53	100	1 U
Trichloroethene	5	7.1	1.2	31	5	31	1 U
cis-1,2-Dichloroethene	70	13	1.9	66	4.9	43	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					
2-Hexanone	NA	10 U					
4-Methyl-2-pentanone (MIBK)	200	10 U					
Acetone	400	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	NA	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	NA	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	80	11	1 U	1 U	1 U	1 U	1 U
Chloromethane	NA	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NA	1 U	1 U		1 U	1 U	1 U
Dichlorobromomethane	80		1 U		1 U		
Ethylbenzene	700	1 U 5 U	1 U 5 U	1 U 5 U	1 U	1 U 5 U	1 U
Methylene Chloride	3				5 U	5 U	5 U
Styrene	100	1 U	1 U	1 U	1 U		1 U
Toluene trans-1,2-Dichloroethene	1,000 100	1 U		1 U	1 U	1 U	1 U
		1 U	1 U		1 U	1 U	
trans-1,3-Dichloropropene	NA 10.000	1 U				1 0	1 U
Xylenes, Total Total VOCs	10,000		1 U	1 U	1 0		1 U
See Notes on Last Page		125.1	15.1	287	62.9	174	



#### NOTES:

μg/L micrograms per liter
D Diluted Value

H Sample was prepped or analyzed beyond the specified holding time U Value not detected above the laboratory reporting limit.

Yellow Exceedance of Type 1 Risk Reduction Standard for Groundwater.
GC/MS VOA - 8260 Gas Chromatography/Mass Spec Volatile Organic Analysis USEPA Method 8260B

NA Not Available



Sample ID		Ecological	Screening	Ol	F-2	SS	S-1	SS	-2	SS-3	Trip Blank
Lithological Unit		Values Regi		Stormwat	er Outfall	Stream	Sample	Stream	Sample	Stream Sample	Ouality Control
Lab Sample Number	Georgia Water	Water Scree	ening Values	680-114593-2	680-133594-2	680-114593-3	680-133594-1	680-114593-4	680-133511-5	680-133511-10	680-133511-12
Sampling Date	Quality	for Hazard	dous Waste	07/16/2015 10:30:00	12/19/2016 09:30:00	07/16/2015 12:26:00	12/19/2016 09:25:00	07/16/2015 13:02:00	12/19/2016 09:20:00	12/19/2016 11:25:00	12/19/2016 15:00:00
Matrix	Standards	Sites	2015	Water							
Dilution Factor	October 2015			1	1	1	1	1	1	1	1
Units		Chronic	Acute	μg/L							
Volatiles - 8260B						• -					
VOC Constituents of Concern											
Tetrachloroethene	3.3	53	430	<u>76</u>	27	36	<u>82</u>	17	14	34	1 U
Trichloroethene	30	200	2,000	12	4.7	2.7	7.7	1 U	1.5	3.2	1 U
cis-1,2-Dichloroethene	1	620	5,500	5.9	3	2.3	9.6	1 U	1.4	3.7	1 U
Vinyl chloride	2.4	930	8,400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds											
1,1,1-Trichloroethane	NA	76	690	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	4.0	200	910	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	NA	730	3,200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	NA	410	3,700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7,100	130	1,200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	37	2,000	8,200	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	15	520	3,300	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	NA	22,000	200,000	10 U							
2-Hexanone	NA	99	1,800	10 U							
4-Methyl-2-pentanone (MIBK)	NA	170	2,200	10 U							
Acetone	NA	1,700	15,000	10 U							
Benzene	51	160	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	140	230	1,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	1,500	16	38	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Carbon disulfide	NA	15	130	2 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Carbon tetrachloride	1.6	77	690	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	1,600	25	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	13	320	2,900	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NA	NA	NA	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Chloroform	470	140	1,300	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NA	NA	NA	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	21	1.7	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorobromomethane	17	340	3,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	2100	61	550	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	590	1,500	8,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	NA	32	290	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	5,980	62	560	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	10,000	558	10,046	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	21	1.7	15	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Xylenes, Total	NA	27	240	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Total VOCs	NA	NA	NA	93.9	34.7	41	99.3	17	16.9	40.9	

#### NOTES:

μg/L micrograms per liter Ü

Value not detected above the laboratory reporting limit.
Exceedance of Georgia Water Quality Standards for Surface Water Yellow

Underline

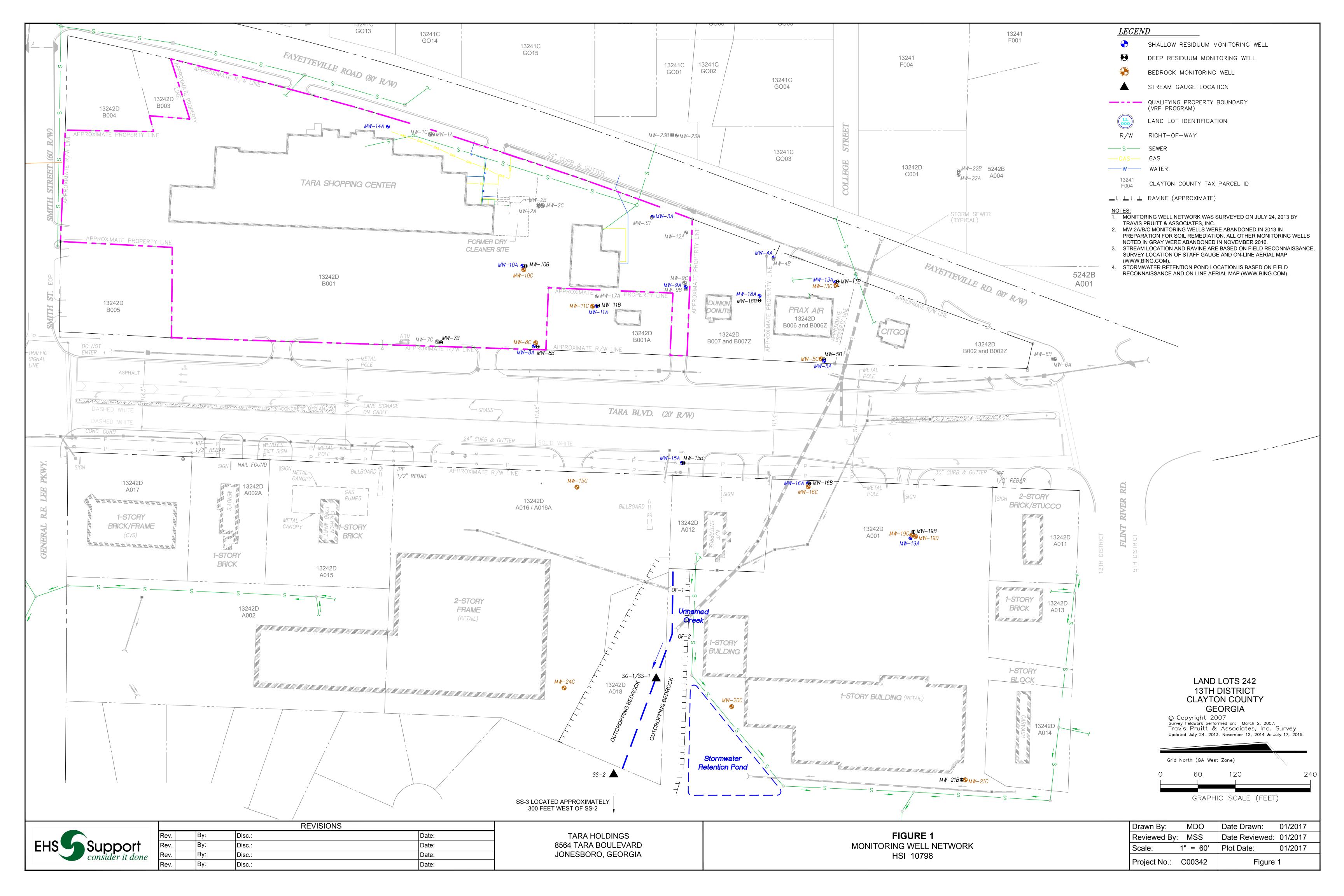
Exceedance of Chronic Ecological Screening Values Region 4 Surface Water Screening Values Gas Chromatography/Mass Spec Volatile Organic Analysis USEPA Method 8260B GC/MS VOA - 8260B

Not Available





# **FIGURE**





# APPENDIX A

**Professional Services** 

# Appendix A Tabulated Summary of Professional Engineer and Geologist Time (Period June 1, 2016 through December 31, 2016) Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA Voluntary Remediation Program (HSI 10798)

Professional Service	Date	Hours	Description
Professional E	ngineer		
Jonathan	6/27/2016	0.5	Call with Stayrook, review of the Semi-Annual Progress Report
Waddell, PE	6/30/2016	0.5	Signature of Progress Report
wadden, i L	8/24/2016	1	Call with Stayrook regarding CAP approval and future task.
	9/12/2016	1	Alterman planning.
	10/5/2016	1	Call with Stayrook regarding path forward.
	10/3/2016	0.5	Call with Stayrook.
	10/24/2016	0.25	Scheduling Scheduling
	10/26/2016	1	Call with Dever and Stayrook regarding status of CAP activities and short term action items for FY17.
	11/3/2016	1	Invoicing and coordination.
	11/4/2016	4	Development of action items, call with Dever, coordination of field activities, calls with Eon Products and GeoLab. Edits
	11/4/2010	-	to CAP.
	11/7/2016	2.5	Call with Gugliemotto and Smith regarding field activities, coordination and task, walls with Garcia and What-A-Day
			Care.
	11/9/2016	0.5	Coordination
	11/10/2016	4	Email coordination with field team, coordination of field activities. Edits to SVI Work Plan.
	11/11/2016	3	Call with GA EPD, call with Reid, email to Dever, review of HASP, coordination. Review and edits to SVI Work Plan.
	11/14/2016	3	Edits to VI Work Plan based on Reid's comments, submittal of Draft VI Work Plan to Ashland.
	11/15/2016	2	Review of field notes, planning, call with Stayrook regarding scope, coordination with field staff.
	11/16/2016	8.5	Review of M&M Plan, preparation for meeting with JBW Realty, mod to Alterman, calls with Stayrook and Conner,
			meeting with JBW Realty. Call with Gugliemotto, review of wells abandoned, meeting with field crew, field and lab
			coordination.
	11/17/2016	4	Upload of photos, coordination with field staff, call with Futch and follow up with Gugliemotto, evaluation of
			groundwater contours. Finalization of VI Work Plan. Edits to responses to comments, final edits, and submittal to Dever.
	11/18/2016	7	Sent email summarizing communications with GA EPA, meeting with Gugliemotto to discuss status, observed MW-
			23A/B abandonment, field work task. Review of VI Work Plan PDF and edits. Mobe to Jonesboro, invoicing of Eon Pro
			PDB, commute to Hampton In to pick up PDF for MW-15C, set PDB within MW-15C, mob home.
	11/21/2016	2.5	Various tasks. Finalization of VI Work Plan. Determination of location of SS-3.
	11/23/2016	0.5	Submittal of VI Work Plan to GA EPD.
	11/30/2016	1.5	Prep of semi-annual report. Evaluation of reserves against RFP cost.
	12/1/2016	0.5	Edits to the Semi-Annual Progress Report
	12/2/2016	0.5	Invoicing.
	12/4/2016	0.5	Communication with Stayrook regarding reserves.
	12/5/2016	2.5	Preparation for PDB sampling event, call with Spikes, invoicing, call with Dever.
	12/6/2016	2	Call with Futch, call with Reid, email to team, communications with Ashland, invoicing.
	12/7/2016	2	Email to Futch regarding report due date, coordination of abandonment logs. Coordination of SS-3 access, call with
	10/0::	e -	Spikes regarding Clayton County access, email to Ashland regarding SS-3.
	12/8/2016	0.5	Call with Futch regarding SS-3 and follow-up.
	12/9/2016	0.5	Communications with Dever regarding SS-3.
	12/13/2016	0.5	Draft email responses to Ashland.
	12/15/2016	0.5 9.5	Coordination, communications with Stayrook.  Mobe to site, kick-off PDB sampling oversight, meeting with GA EPD on-site, picked up supplies, drum pickup with
	12/19/2016	9.5	Nexeo.
			Inexeo.



**APPENDIX B**Low-Flow Purge and Sampling Logs

SITE DATA Site Name: Site Address:	te Name: Ashland Alterman Weather: (O) F												
WELL DESCRIP Well ID: Well Condition	MW- 22	A		- Casing Mat	erial: PVC								
Well Mount:	Aush			Comments:	Scree	n 20-3	30 - pum	p placement 25'					
Well Mount: AUSh Comments: Screen 20-30 - pump placement 25  Reference Point: Top of Casing (TOC)  Total Well Depth: 30' Initial Depth to Water: 15,73  Casing diameter: 2"													
PURGE DATA													
TIME	<b>pH</b> SU	Sp. Cond. mS/cm	Turb. NTU	DO mg/L	<b>Temp</b> °C	ORP mV	DTW	Volume/Comments					
	+/- 0.1 SU	+/- 5%	<10	+/- 0.2 mg/L				USEPA Region 4					
	start p			0 -0	10.1	/ / 2	15.96						
1508	4.63	0.023	11.9	0.38	18.16	64.3	16.19	purgeclear					
1518	4.36	0.023	11.5	0.38	18.15	71.8	16.05						
1523	4.37	0.022	9.71	0,25	18.30	67.0	16.16						
		01-		0,-0	10.30	V 1.0	10.10						
-													
Disposal Meth	Total Volume Purged: ~ \ _S gallons Flow Rate: ~ \ \ _20 mL/min  Disposal Method of Purged Water:												
Time Sampled:				Sample ID:	MW- 221	9							
Analytical Para	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN												
VOCs via 8260B													
							4						

SITE DATA Site Name: Site Address:  WELL DESCRIP Well ID: Well Condition Well Mount:  Reference Poir Total Well Dep Initial Depth to Casing diameter	TION  MW-22  GOOD  Flush  At: Top of Coth: 77  Water: 15	Blvd, Jonesk	ooro, GA	Casing Mat						
TIME	рН	Sp. Cond.	Turb.	DO nos/	Temp	ORP	DTW	Volume/Comments		
	SU	mS/cm	NTU	mg/L	°C	mV		LICEDA Pagion A		
1535 -h	+/-0.1 SU	+/- 5%	<10	+/- 0.2 mg/L				USEPA Region 4		
1540	5.44	0.198	38.1	4.34	17.60	88.7	15.60	purae clear		
1545	5.63	0.226	1.79111	1.79	17.45	82.2	15.60	purge cloudy		
1550	5.69	0.220	628	1.74	17.49	80.2	15.56	' '		
1555	5.75	0,215	633	1.89	17.55	76.7	15.56			
1600	5.82	0.210	614	2.24	17.52	73.4	15.59			
1605	5.85	0.201	155	2.50	17.50	69.8	15.61			
1610	5.86	0.195	86	2.73	17.51	68,2	15.62			
1615	5.88	0.185	61.8	2.91	17.54	65.6	15.62			
1625	5.89	0.183	47.8	2.93	17.54	65.6	15.60			
1630	5.90	0.182	53.6	2.92	17,54	65.2	15.60			
1635	5,91	0.181	47.2	2,91	17.53	65.2	15.59			
1640	5.91	0.181	36.3	2.93	17.5A	65.1	15.60			
					Selection in					
Total Volume Purged: $^{2}$ 2 gallons Flow Rate: $^{2}$ 120 mL/min  Disposal Method of Purged Water: Containerized  Sampling Method: low flow  Time Sampled: 1640 Sample ID: MW-22B  Analytical Parameters:  VOCs via 8260B - requested expedited 2-day TAT										

Site Address:		terman Blvd, Jonesb	ooro, GA	Date: Weather: Sampled by	55°F	er   4 201					
WELL DESCRIP											
Well ID:	MW-23	A									
Well Condition:				Casing Mat				1			
Well Mount: Flush Comments: Screened 10-20' - pump intakes											
Reference Point: Top of Casing (TOC)											
Total Well Dep											
Initial Depth to	Water: 18	.27 @ I	100 .								
Casing diamete	er: 2"										
PURGE DATA											
TIME	рН	Sp. Cond.	Turb.	DO	Temp	ORP	DTW	Volume/Comments			
	SU	mS/cm	NTU	mg/L	°C	mV	J	Volume/Commence			
	+/- 0.1 SU	+/- 5%	<10	+/- 0.2 mg/L	93413			USEPA Region 4			
1253-5							18.15				
		ough cell	full					top of pump			
1308	4.98	0.173	111	3.08	1834	86.7	718.28	purge cloudy			
1314	4.90	6.173	103.6	2.93	18,93	97.2	718.28	,			
1318	4.89	0.172	83.8	2.75	19.22	96.8	713.28				
1322	4.90	0.172	77.3	2.89	19.45	98.5	718.28	drop pump to 18.7			
1326	4.92	0.171	50.7	2.87	19.89	99.6	718,28				
1330	4.90	0.170	45.5	2.71	20.13	102.0	718.28	purge clear			
1335	4.87	0.170	43.2	2.70	20,47	104.7	718.28	drop pump to 18.9			
1339	4,85	0.168	41.4	2.57	20.79	109.3	718,28				
134506											
					9						
Total Volume P	0	gallon		prized	Flow Rate:	~80	mL/min				
Sampling Meth	Disposal Method of Purged Water: Container 12td  Sampling Method: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \										
Time Sampled:		HOW		Sample ID:	DAIAL DO	10					
Analytical Para				Sample ID:							
		100101	0	1.1.1	2-da						
VOCS VIA 8260	OCS via 8260B - requested expedited, t-week TAT										
					96						

SITE DATA Site Name: Site Address:  WELL DESCRIP Well ID: Well Condition: Well Mount:  Reference Poin Total Well Dept Initial Depth to Casing diamete	t: Top of Cth: 69.5 Water: 18	Blvd, Jonesh		Casing Mat	SS ° F y: Danielle		tto	'-pumpintake@6		
TIME	<b>pH</b> SU	Sp. Cond. mS/cm	Turb. NTU	DO mg/L	Temp °C	ORP mV	DTW	Volume/Comments		
	+/- 0.1 SU	+/- 5%	<10	+/- 0.2 mg/L		E Consti		USEPA Region 4		
1145 St		_	-		_	-	18.74			
1150	5.96	0.186	98.6	3.92	17.17	122.9	18.72	purge cloudy		
1155	5.75	0.186	90.6	3.74	17.21	115.2	18.71			
1200	5.77	0.186	73.3	3.65	17.31	107.0	18.65			
1205	5.82	0.186	73.5	3.55	17.41	97.3	18.62			
1210	5.85	0.186	60.4	3.75	17.49	91.1	18.66			
1215	5.88	0.186	46.7	3.87	17.55	86.5	18.68	purge clear		
1220	5.90	0.186	44.1	3.76	17.56	82.9	18.66			
1225	5.91	0.186	28.2	3.70	17.52	81.2	18.60			
1230	5.91	0.196	24.4	3.57	17.56	79.0	18.57			
1235	5.92	0.187	22.8	3.54	17.64	78,5	18.60			
1240	5.45	0.196	24.2	3.66	17.60	75.3	18.62			
Total Volume Purged: 2 gallons Flow Rate: ~140 mL/min Disposal Method of Purged Water:										
Analytical Parameters: OCS via 8260B - Requested expedited - Tweek TAT										
OCs via 8260E	3-Kegi	rested ex	xpedite	d - +1	week -	TAT				
YSISS6 MPS, Lamotte 2020 we, theron on water interface meter,										
151556	MPS'	Lamotte	2020	we, t	reron	OII WOH	er inte	rface meter.		
monson	npm	12 V 55	9WK	ump'u	11 mn	miler.				



# APPENDIX C

Laboratory Reports J132112-1 J133511-1



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: 680-132112-1 Client Project/Site: Ashland Alterman

For:

EHS Support, LLC 4694 Cemetary Rd, PMB 104 Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook

Lathryn Smith

Authorized for release by: 11/17/2016 9:14:37 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

LINKS

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**Have a Question?** 



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.

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

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# **Case Narrative**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

Job ID: 680-132112-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: EHS Support, LLC
Project: Ashland Alterman

Report Number: 680-132112-1

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 11/15/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the cooler at receipt was 2.0° C.

# **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-23B (680-132112-1), MW-23A (680-132112-2), MW-22A (680-132112-3), MW-22B (680-132112-4) and Trip Blank (680-132112-5) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 11/16/2016.

No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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# **Sample Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-132112-1	MW-23B	Water	11/14/16 12:45	11/15/16 09:20
680-132112-2	MW-23A	Water	11/14/16 13:45	11/15/16 09:20
680-132112-3	MW-22A	Water	11/14/16 15:30	11/15/16 09:20
680-132112-4	MW-22B	Water	11/14/16 16:40	11/15/16 09:20
680-132112-5	Trip Blank	Water	11/14/16 00:00	11/15/16 09:20

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# **Method Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

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

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# **Definitions/Glossary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

# Glossary

TEQ

Toxicity Equivalent Quotient (Dioxin)

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)

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# **Detection Summary**

Project/Site: Ashland Alterman	in								
Client Sample ID: MW-23B						Lab	Sample ID:	: 680-132112-1	
No Detections.									
Client Sample ID: MW-23A	•							: 680-132112-2	
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type	
Trichloroethene	4.3		1.0		ug/L	1	8260B	Total/NA	
Client Sample ID: MW-22A						Lab Sample ID: 680-132112-3			
No Detections.									
Client Sample ID: MW-22B						Lab	Sample ID:	: 680-132112-4	
No Detections.									

No Detections.

**Client Sample ID: Trip Blank** 

Client: EHS Support, LLC

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TestAmerica Job ID: 680-132112-1

Lab Sample ID: 680-132112-5

Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-23B Lab Sample ID: 680-132112-1

Date Collected: 11/14/16 12:45 Matrix: Water Date Received: 11/15/16 09:20

Analyte	Result Qu	alifier RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10			ug/L			11/16/16 14:56	1
Benzene	<1.0	1.0		ug/L			11/16/16 14:56	1
Bromoform	<1.0	1.0		ug/L			11/16/16 14:56	1
Bromomethane	<5.0	5.0		ug/L			11/16/16 14:56	1
2-Butanone (MEK)	<10	10		ug/L			11/16/16 14:56	1
Carbon disulfide	<2.0	2.0		ug/L			11/16/16 14:56	1
Carbon tetrachloride	<1.0	1.0		ug/L			11/16/16 14:56	1
Chlorobenzene	<1.0	1.0		ug/L			11/16/16 14:56	1
Chlorodibromomethane	<1.0	1.0		ug/L			11/16/16 14:56	1
Chloroethane	<5.0	5.0		ug/L			11/16/16 14:56	1
Chloroform	<1.0	1.0		ug/L			11/16/16 14:56	1
Chloromethane	<1.0	1.0		ug/L			11/16/16 14:56	1
cis-1,2-Dichloroethene	<1.0	1.0		ug/L			11/16/16 14:56	1
cis-1,3-Dichloropropene	<1.0	1.0		ug/L			11/16/16 14:56	1
Dichlorobromomethane	<1.0	1.0		ug/L			11/16/16 14:56	1
1,1-Dichloroethane	<1.0	1.0		ug/L			11/16/16 14:56	1
1,2-Dichloroethane	<1.0	1.0		ug/L			11/16/16 14:56	1
1,1-Dichloroethene	<1.0	1.0		ug/L			11/16/16 14:56	1
1,2-Dichloropropane	<1.0	1.0		ug/L			11/16/16 14:56	1
Ethylbenzene	<1.0	1.0		ug/L			11/16/16 14:56	1
2-Hexanone	<10	10		ug/L			11/16/16 14:56	1
Methylene Chloride	<5.0	5.0		ug/L			11/16/16 14:56	1
4-Methyl-2-pentanone (MIBK)	<10	10		ug/L			11/16/16 14:56	1
Styrene	<1.0	1.0		ug/L			11/16/16 14:56	1
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L			11/16/16 14:56	1
Tetrachloroethene	<1.0	1.0		ug/L			11/16/16 14:56	1
Toluene	<1.0	1.0		ug/L			11/16/16 14:56	1
trans-1,2-Dichloroethene	<1.0	1.0		ug/L			11/16/16 14:56	1
trans-1,3-Dichloropropene	<1.0	1.0		ug/L			11/16/16 14:56	1
1,1,1-Trichloroethane	<1.0	1.0		ug/L			11/16/16 14:56	1
1,1,2-Trichloroethane	<1.0	1.0		ug/L			11/16/16 14:56	1
Trichloroethene	<1.0	1.0		ug/L			11/16/16 14:56	1
Vinyl chloride	<1.0	1.0		ug/L			11/16/16 14:56	1
Xylenes, Total	<1.0	1.0		ug/L			11/16/16 14:56	1
Surrogate	%Recovery Qu	alifier Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102	80 - 120			-		11/16/16 14:56	1
Dibromofluoromethane (Surr)	94	80 - 122					11/16/16 14:56	1
1,2-Dichloroethane-d4 (Surr)	97	73 - 131					11/16/16 14:56	1
Toluene-d8 (Surr)	100	80 - 120					11/16/16 14:56	1

11/16/16 14:56

Client Sample ID: MW-23A Lab Sample ID: 680-132112-2 Date Collected: 11/14/16 13:45 Matrix: Water

Date Received: 11/15/16 09:20

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result Qualif	fier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Acetone	<10	10	ug/L			11/16/16 15:19	1		
Benzene	<1.0	1.0	ug/L			11/16/16 15:19	1		
Bromoform	<1.0	1.0	ug/L			11/16/16 15:19	1		

TestAmerica Savannah

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-23A Lab Sample ID: 680-132112-2

Date Collected: 11/14/16 13:45

Date Received: 11/15/16 09:20

Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued) Analyte Result Qualifier RL **MDL** Unit D Dil Fac Prepared Analyzed Bromomethane <5.0 5.0 11/16/16 15:19 ug/L ug/L 2-Butanone (MEK) <10 10 11/16/16 15:19 Carbon disulfide <2.0 2.0 ug/L 11/16/16 15:19 Carbon tetrachloride <1.0 1.0 ug/L 11/16/16 15:19 Chlorobenzene <1.0 1.0 ug/L 11/16/16 15:19 Chlorodibromomethane ug/L <1.0 10 11/16/16 15:19 Chloroethane <5.0 5.0 ug/L 11/16/16 15:19 Chloroform <1.0 1.0 ug/L 11/16/16 15:19 Chloromethane <1.0 1.0 ug/L 11/16/16 15:19 cis-1,2-Dichloroethene <1.0 1.0 ug/L 11/16/16 15:19 cis-1,3-Dichloropropene <1.0 1.0 ug/L 11/16/16 15:19 ug/L Dichlorobromomethane <1.0 1.0 11/16/16 15:19 1,1-Dichloroethane <1.0 1.0 ug/L 11/16/16 15:19 1,2-Dichloroethane <1.0 1.0 ug/L 11/16/16 15:19 1,1-Dichloroethene <1.0 1.0 ug/L 11/16/16 15:19 1,2-Dichloropropane <1.0 1.0 ug/L 11/16/16 15:19 Ethylbenzene <1.0 1.0 ug/L 11/16/16 15:19 2-Hexanone <10 10 ug/L 11/16/16 15:19 ug/L Methylene Chloride 5.0 11/16/16 15:19 <5.0 4-Methyl-2-pentanone (MIBK) <10 10 ug/L 11/16/16 15:19 Styrene <1.0 1.0 ug/L 11/16/16 15:19 1,1,2,2-Tetrachloroethane 1.0 ug/L <1.0 11/16/16 15:19 Tetrachloroethene <1.0 1.0 ug/L 11/16/16 15:19 Toluene <1.0 1.0 ug/L 11/16/16 15:19 trans-1,2-Dichloroethene <1.0 1.0 ug/L 11/16/16 15:19 trans-1,3-Dichloropropene <1.0 1.0 ug/L 11/16/16 15:19 1,1,1-Trichloroethane <1.0 1.0 ug/L 11/16/16 15:19 1,1,2-Trichloroethane <1.0 1.0 ug/L 11/16/16 15:19 **Trichloroethene** 1.0 ug/L 11/16/16 15:19 4.3 Vinyl chloride <1.0 1.0 ug/L 11/16/16 15:19 Xylenes, Total <1.0 1.0 ug/L 11/16/16 15:19

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120	-		11/16/16 15:19	1
Dibromofluoromethane (Surr)	95		80 - 122			11/16/16 15:19	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131			11/16/16 15:19	1
Toluene-d8 (Surr)	99		80 - 120			11/16/16 15:19	1

Client Sample ID: MW-22A

Date Collected: 11/14/16 15:30

Lab Sample ID: 680-132112-3

Matrix: Water

Date Received: 11/15/16 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			11/16/16 15:42	1
Benzene	<1.0		1.0		ug/L			11/16/16 15:42	1
Bromoform	<1.0		1.0		ug/L			11/16/16 15:42	1
Bromomethane	<5.0		5.0		ug/L			11/16/16 15:42	1
2-Butanone (MEK)	<10		10		ug/L			11/16/16 15:42	1
Carbon disulfide	<2.0		2.0		ug/L			11/16/16 15:42	1

TestAmerica Savannah

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Project/Site: Ashland Alterman

Client: EHS Support, LLC

Client Sample ID: MW-22A

Date Collected: 11/14/16 15:30 Date Received: 11/15/16 09:20

Lab Sample ID: 680-132112-3

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			11/16/16 15:42	1
Chlorobenzene	<1.0		1.0		ug/L			11/16/16 15:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			11/16/16 15:42	1
Chloroethane	<5.0		5.0		ug/L			11/16/16 15:42	1
Chloroform	<1.0		1.0		ug/L			11/16/16 15:42	1
Chloromethane	<1.0		1.0		ug/L			11/16/16 15:42	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 15:42	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 15:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/16/16 15:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/16/16 15:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/16/16 15:42	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/16/16 15:42	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/16/16 15:42	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/16 15:42	1
2-Hexanone	<10		10		ug/L			11/16/16 15:42	1
Methylene Chloride	<5.0		5.0		ug/L			11/16/16 15:42	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			11/16/16 15:42	1
Styrene	<1.0		1.0		ug/L			11/16/16 15:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/16/16 15:42	1
Tetrachloroethene	<1.0		1.0		ug/L			11/16/16 15:42	1
Toluene	<1.0		1.0		ug/L			11/16/16 15:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 15:42	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 15:42	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/16/16 15:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			11/16/16 15:42	1
Trichloroethene	<1.0		1.0		ug/L			11/16/16 15:42	1
Vinyl chloride	<1.0		1.0		ug/L			11/16/16 15:42	1
Xylenes, Total	<1.0		1.0		ug/L			11/16/16 15:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	102		80 - 120			-		11/16/16 15:42	1
Dibromofluoromethane (Surr)	94		80 - 122					11/16/16 15:42	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131					11/16/16 15:42	1

Lab Sample ID: 680-132112-4 Client Sample ID: MW-22B

Date Collected: 11/14/16 16:40 **Matrix: Water** 

Date Received: 11/15/16 09:20

Toluene-d8 (Surr)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			11/16/16 16:05	1
Benzene	<1.0		1.0		ug/L			11/16/16 16:05	1
Bromoform	<1.0		1.0		ug/L			11/16/16 16:05	1
Bromomethane	<5.0		5.0		ug/L			11/16/16 16:05	1
2-Butanone (MEK)	<10		10		ug/L			11/16/16 16:05	1
Carbon disulfide	<2.0		2.0		ug/L			11/16/16 16:05	1
Carbon tetrachloride	<1.0		1.0		ug/L			11/16/16 16:05	1
Chlorobenzene	<1.0		1.0		ug/L			11/16/16 16:05	1
Chlorodibromomethane	<1.0		1.0		ug/L			11/16/16 16:05	1

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11/16/16 15:42

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-22B

Date Collected: 11/14/16 16:40 Date Received: 11/15/16 09:20 Lab Sample ID: 680-132112-4

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			11/16/16 16:05	1
Chloroform	<1.0		1.0		ug/L			11/16/16 16:05	1
Chloromethane	<1.0		1.0		ug/L			11/16/16 16:05	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 16:05	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 16:05	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/16/16 16:05	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/16/16 16:05	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/16/16 16:05	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/16/16 16:05	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/16/16 16:05	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/16 16:05	1
2-Hexanone	<10		10		ug/L			11/16/16 16:05	1
Methylene Chloride	<5.0		5.0		ug/L			11/16/16 16:05	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			11/16/16 16:05	1
Styrene	<1.0		1.0		ug/L			11/16/16 16:05	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/16/16 16:05	1
Tetrachloroethene	<1.0		1.0		ug/L			11/16/16 16:05	1
Toluene	<1.0		1.0		ug/L			11/16/16 16:05	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 16:05	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 16:05	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/16/16 16:05	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			11/16/16 16:05	1
Trichloroethene	<1.0		1.0		ug/L			11/16/16 16:05	1
Vinyl chloride	<1.0		1.0		ug/L			11/16/16 16:05	1
Xylenes, Total	<1.0		1.0		ug/L			11/16/16 16:05	

Limits

80 - 120

80 - 122

73 - 131

80 - 120

Client Sample ID: Trip Blank

%Recovery Qualifier

103

95

98

99

Date Collected: 11/14/16 00:00

4-Bromofluorobenzene (Surr)

Dibromofluoromethane (Surr)

1,2-Dichloroethane-d4 (Surr)

Toluene-d8 (Surr)

Surrogate

Date Received: 11/15/16 09:20

Lab Sample	ID: 680-132112-5
	Matrix: Water

Analyzed

11/16/16 16:05

11/16/16 16:05

11/16/16 16:05

11/16/16 16:05

Prepared

Method: 8260B - Volatile Orga Analyte		Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			11/16/16 09:56	1
Benzene	<1.0		1.0		ug/L			11/16/16 09:56	1
Bromoform	<1.0		1.0		ug/L			11/16/16 09:56	1
Bromomethane	<5.0		5.0		ug/L			11/16/16 09:56	1
2-Butanone (MEK)	<10		10		ug/L			11/16/16 09:56	1
Carbon disulfide	<2.0		2.0		ug/L			11/16/16 09:56	1
Carbon tetrachloride	<1.0		1.0		ug/L			11/16/16 09:56	1
Chlorobenzene	<1.0		1.0		ug/L			11/16/16 09:56	1
Chlorodibromomethane	<1.0		1.0		ug/L			11/16/16 09:56	1
Chloroethane	<5.0		5.0		ug/L			11/16/16 09:56	1
Chloroform	<1.0		1.0		ug/L			11/16/16 09:56	1
Chloromethane	<1.0		1.0		ug/L			11/16/16 09:56	1

TestAmerica Savannah

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Dil Fac

## **Client Sample Results**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

Lab Sample ID: 680-132112-5

Matrix: Water

**Client Sample ID: Trip Blank** 

Date Collected: 11/14/16 00:00 Date Received: 11/15/16 09:20

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:56	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 09:56	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/16/16 09:56	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/16/16 09:56	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/16/16 09:56	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:56	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/16/16 09:56	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/16 09:56	1
2-Hexanone	<10		10		ug/L			11/16/16 09:56	1
Methylene Chloride	<5.0		5.0		ug/L			11/16/16 09:56	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			11/16/16 09:56	1
Styrene	<1.0		1.0		ug/L			11/16/16 09:56	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/16/16 09:56	1
Tetrachloroethene	<1.0		1.0		ug/L			11/16/16 09:56	1
Toluene	<1.0		1.0		ug/L			11/16/16 09:56	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:56	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 09:56	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/16/16 09:56	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			11/16/16 09:56	1
Trichloroethene	<1.0		1.0		ug/L			11/16/16 09:56	1
Vinyl chloride	<1.0		1.0		ug/L			11/16/16 09:56	1
Xylenes, Total	<1.0		1.0		ug/L			11/16/16 09:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120	 	11/16/16 09:56	1
Dibromofluoromethane (Surr)	93		80 - 122		11/16/16 09:56	1
1,2-Dichloroethane-d4 (Surr)	94		73 - 131		11/16/16 09:56	1
Toluene-d8 (Surr)	100		80 - 120		11/16/16 09:56	1

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## **Surrogate Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

				Percent Sui	rogate Rec
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-122)	(73-131)	(80-120)
680-132112-1	MW-23B	102	94	97	100
680-132112-2	MW-23A	102	95	97	99
680-132112-3	MW-22A	102	94	98	99
680-132112-4	MW-22B	103	95	98	99
680-132112-5	Trip Blank	101	93	94	100
LCS 680-457904/4	Lab Control Sample	102	95	99	101
LCSD 680-457904/5	Lab Control Sample Dup	101	96	98	100
MB 680-457904/9	Method Blank	101	93	95	97

#### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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Client: EHS Support, LLC Project/Site: Ashland Alterman

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### Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-457904/9

Client Sample ID: Method Blank
Matrix: Water

Prep Type: Total/NA

Analysis Batch: 457904

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			11/16/16 09:33	1
Benzene	<1.0		1.0		ug/L			11/16/16 09:33	1
Bromoform	<1.0		1.0		ug/L			11/16/16 09:33	1
Bromomethane	<5.0		5.0		ug/L			11/16/16 09:33	1
2-Butanone (MEK)	<10		10		ug/L			11/16/16 09:33	1
Carbon disulfide	<2.0		2.0		ug/L			11/16/16 09:33	1
Carbon tetrachloride	<1.0		1.0		ug/L			11/16/16 09:33	1
Chlorobenzene	<1.0		1.0		ug/L			11/16/16 09:33	1
Chlorodibromomethane	<1.0		1.0		ug/L			11/16/16 09:33	1
Chloroethane	<5.0		5.0		ug/L			11/16/16 09:33	1
Chloroform	<1.0		1.0		ug/L			11/16/16 09:33	1
Chloromethane	<1.0		1.0		ug/L			11/16/16 09:33	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:33	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 09:33	1
Dichlorobromomethane	<1.0		1.0		ug/L			11/16/16 09:33	1
1,1-Dichloroethane	<1.0		1.0		ug/L			11/16/16 09:33	1
1,2-Dichloroethane	<1.0		1.0		ug/L			11/16/16 09:33	1
1,1-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:33	1
1,2-Dichloropropane	<1.0		1.0		ug/L			11/16/16 09:33	1
Ethylbenzene	<1.0		1.0		ug/L			11/16/16 09:33	1
2-Hexanone	<10		10		ug/L			11/16/16 09:33	1
Methylene Chloride	<5.0		5.0		ug/L			11/16/16 09:33	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			11/16/16 09:33	1
Styrene	<1.0		1.0		ug/L			11/16/16 09:33	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			11/16/16 09:33	1
Tetrachloroethene	<1.0		1.0		ug/L			11/16/16 09:33	1
Toluene	<1.0		1.0		ug/L			11/16/16 09:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			11/16/16 09:33	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			11/16/16 09:33	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			11/16/16 09:33	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			11/16/16 09:33	1
Trichloroethene	<1.0		1.0		ug/L			11/16/16 09:33	1
Vinyl chloride	<1.0		1.0		ug/L			11/16/16 09:33	1
Xylenes, Total	<1.0		1.0		ug/L			11/16/16 09:33	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		80 - 120		11/16/16 09:33	1
Dibromofluoromethane (Surr)	93		80 - 122		11/16/16 09:33	1
1,2-Dichloroethane-d4 (Surr)	95		73 - 131		11/16/16 09:33	1
Toluene-d8 (Surr)	97		80 - 120		11/16/16 09:33	1

Lab Sample ID: LCS 680-457904/4

**Matrix: Water** 

Analysis Batch: 457904

-	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier Unit	D	%Rec	Limits	
Acetone	250	210	ug/L		84	68 - 132	
Benzene	50.0	51.5	ug/L		103	80 - 120	

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Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: Lab Control Sample Prep Type: Total/NA

Lab Sample ID: LCS 680-457904/4

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

**Matrix: Water** 

Analysis Batch: 457904

Analysis Datch. 457904	Spike	LCS	LCS		%Rec.
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits
Bromoform	50.0	44.3	ug/L	89	52 _ 122
Bromomethane	50.0	54.1	ug/L	108	43 - 146
2-Butanone (MEK)	250	219	ug/L	88	79 <sub>-</sub> 125
Carbon disulfide	50.0	54.7	ug/L	109	77 - 129
Carbon tetrachloride	50.0	51.6	ug/L	103	67 _ 125
Chlorobenzene	50.0	49.7	ug/L	99	80 - 120
Chlorodibromomethane	50.0	47.2	ug/L	94	68 - 120
Chloroethane	50.0	59.6	ug/L	119	48 - 145
Chloroform	50.0	50.6	ug/L	101	80 - 120
Chloromethane	50.0	53.6	ug/L	107	76 <sub>-</sub> 149
cis-1,2-Dichloroethene	50.0	52.0	ug/L	104	80 - 120
cis-1,3-Dichloropropene	50.0	49.3	ug/L	99	80 _ 129
Dichlorobromomethane	50.0	47.9	ug/L	96	80 - 120
1,1-Dichloroethane	50.0	51.2	ug/L	102	80 - 120
1,2-Dichloroethane	50.0	49.7	ug/L	99	72 _ 128
1,1-Dichloroethene	50.0	51.5	ug/L	103	80 - 120
1,2-Dichloropropane	50.0	49.6	ug/L	99	80 - 120
Ethylbenzene	50.0	52.1	ug/L	104	80 - 120
2-Hexanone	250	233	ug/L	93	80 - 131
Methylene Chloride	50.0	51.5	ug/L	103	80 - 120
4-Methyl-2-pentanone (MIBK)	250	241	ug/L	96	80 - 134
Styrene	50.0	51.4	ug/L	103	80 - 126
1,1,2,2-Tetrachloroethane	50.0	46.4	ug/L	93	76 - 126
Tetrachloroethene	50.0	51.1	ug/L	102	71 <sub>-</sub> 123
Toluene	50.0	51.8	ug/L	104	80 - 120
trans-1,2-Dichloroethene	50.0	52.7	ug/L	105	80 - 120
trans-1,3-Dichloropropene	50.0	49.8	ug/L	100	80 - 128
1,1,1-Trichloroethane	50.0	50.8	ug/L	102	80 - 120
1,1,2-Trichloroethane	50.0	48.4	ug/L	97	80 - 120
Trichloroethene	50.0	49.1	ug/L	98	80 - 120
Vinyl chloride	50.0	56.2	ug/L	112	80 - 129
Xylenes, Total	100	104	ug/L	104	80 - 120

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	102		80 - 120
Dibromofluoromethane (Surr)	95		80 - 122
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: LCSD 680-457904/5

**Matrix: Water** 

Analysis Batch: 457904

Client Sample ID: Lab	Control Sample	Dup
	Prep Type: Total	/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	250	215		ug/L		86	68 - 132	2	30
Benzene	50.0	51.6		ug/L		103	80 - 120	0	20
Bromoform	50.0	45.0		ug/L		90	52 - 122	2	20
Bromomethane	50.0	50.8		ug/L		102	43 - 146	6	20

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Client: EHS Support, LLC Project/Site: Ashland Alterman

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-457904/5

**Matrix: Water** 

Analysis Batch: 457904

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit	
2-Butanone (MEK)	250	217		ug/L		87	79 - 125	1	20	
Carbon disulfide	50.0	55.0		ug/L		110	77 - 129	1	20	
Carbon tetrachloride	50.0	52.9		ug/L		106	67 - 125	2	20	
Chlorobenzene	50.0	49.7		ug/L		99	80 - 120	0	20	
Chlorodibromomethane	50.0	47.1		ug/L		94	68 - 120	0	20	
Chloroethane	50.0	59.8		ug/L		120	48 - 145	0	20	
Chloroform	50.0	51.1		ug/L		102	80 - 120	1	20	
Chloromethane	50.0	54.0		ug/L		108	76 - 149	1	30	
cis-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	1	20	
cis-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 129	0	20	
Dichlorobromomethane	50.0	48.4		ug/L		97	80 - 120	1	20	
1,1-Dichloroethane	50.0	51.8		ug/L		104	80 - 120	1	20	
1,2-Dichloroethane	50.0	48.9		ug/L		98	72 - 128	2	50	
1,1-Dichloroethene	50.0	51.5		ug/L		103	80 - 120	0	20	
1,2-Dichloropropane	50.0	49.6		ug/L		99	80 - 120	0	20	
Ethylbenzene	50.0	52.1		ug/L		104	80 - 120	0	20	
2-Hexanone	250	230		ug/L		92	80 - 131	1	20	
Methylene Chloride	50.0	52.2		ug/L		104	80 - 120	1	20	
4-Methyl-2-pentanone (MIBK)	250	236		ug/L		94	80 - 134	2	20	
Styrene	50.0	51.1		ug/L		102	80 - 126	1	20	
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L		93	76 - 126	0	20	
Tetrachloroethene	50.0	51.0		ug/L		102	71 - 123	0	20	
Toluene	50.0	51.3		ug/L		103	80 - 120	1	20	
trans-1,2-Dichloroethene	50.0	52.5		ug/L		105	80 - 120	0	20	
trans-1,3-Dichloropropene	50.0	49.5		ug/L		99	80 - 128	1	30	
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120	1	20	
1,1,2-Trichloroethane	50.0	48.4		ug/L		97	80 - 120	0	20	
Trichloroethene	50.0	49.4		ug/L		99	80 - 120	1	20	
Vinyl chloride	50.0	57.5		ug/L		115	80 - 129	2	20	
Xylenes, Total	100	104		ug/L		104	80 - 120	0	20	

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	96		80 - 122
1,2-Dichloroethane-d4 (Surr)	98		73 - 131
Toluene-d8 (Surr)	100		80 - 120

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## **QC Association Summary**

Client: EHS Support, LLC
Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

**GC/MS VOA** 

Analysis Batch: 457904

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-132112-1	MW-23B	Total/NA	Water	8260B	
680-132112-2	MW-23A	Total/NA	Water	8260B	
680-132112-3	MW-22A	Total/NA	Water	8260B	
680-132112-4	MW-22B	Total/NA	Water	8260B	
680-132112-5	Trip Blank	Total/NA	Water	8260B	
MB 680-457904/9	Method Blank	Total/NA	Water	8260B	
LCS 680-457904/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-457904/5	Lab Control Sample Dup	Total/NA	Water	8260B	

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-23B

Lab Sample ID: 680-132112-1

**Matrix: Water** 

Date Collected: 11/14/16 12:45 Date Received: 11/15/16 09:20

Client Sample ID: MW-23A Date Collected: 11/14/16 13:45

Date Received: 11/15/16 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	457904	11/16/16 14:56	JD1	TAL SAV
	Instrument	ID: CMSO2								

Lab Sample ID: 680-132112-2

Matrix: Water

Matrix: Water

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 457904	Prepared or Analyzed 11/16/16 15:19	Analyst JD1	- Lab TAL SAV
	Instrument	ID: CMSO2								

Client Sample ID: MW-22A Lab Sample ID: 680-132112-3

Date Collected: 11/14/16 15:30 **Matrix: Water** Date Received: 11/15/16 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	457904	11/16/16 15:42	JD1	TAL SAV
	Instrument	ID: CMSO2								

Client Sample ID: MW-22B Lab Sample ID: 680-132112-4

Date Collected: 11/14/16 16:40 Date Received: 11/15/16 09:20

Batch Batch Dil Initial Final Batch Prepared Method Prep Type Туре Run Factor Amount Amount Number or Analyzed Analyst Lab Total/NA Analysis 8260B 5 mL 5 mL 457904 11/16/16 16:05 JD1 TAL SAV Instrument ID: CMSO2

Client Sample ID: Trip Blank Lab Sample ID: 680-132112-5

Date Collected: 11/14/16 00:00 **Matrix: Water** 

Date Received: 11/15/16 09:20

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	457904	11/16/16 09:56	JD1	TAL SAV
	Instrume	nt ID: CMSQ2								

**Laboratory References:** 

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

### **Login Sample Receipt Checklist**

Client: EHS Support, LLC Job Number: 680-132112-1

Login Number: 132112 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.</td <td>N/A</td> <td></td>	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 (excluding tests with immediate HTs)	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	

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## **Certification Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-132112-1

### **Laboratory: TestAmerica Savannah**

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	<b>Expiration Date</b>
Georgia	State Program	4	803	06-30-17

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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: 680-133511-1 Client Project/Site: Ashland Alterman

For:

EHS Support, LLC 4694 Cemetary Rd, PMB 104 Hilliard, Ohio 43026

Attn: Ms. Michelle Stavrook

Juny James

Authorized for release by: 1/5/2017 9:38:16 AM

Jerry Lanier, Project Manager I (912)354-7858 e.3410 jerry.lanier@testamericainc.com

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**Have a Question?** 



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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.

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

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### **Case Narrative**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

Job ID: 680-133511-1

Laboratory: TestAmerica Savannah

Narrative

### **CASE NARRATIVE**

Client: EHS Support, LLC

**Project: Ashland Alterman** 

Report Number: 680-133511-1

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 12/20/2016 and 12/22/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 1.0 and 1.4 C.

### **VOLATILE ORGANIC COMPOUNDS (GC-MS)**

Samples MW-15C (680-133511-1), SS-1 (680-133594-1), MW-24C (680-133511-2), OF-2 (680-133594-2), MW-16C (680-133511-3), MW-20C (680-133511-4), SS-2 (680-133511-5), MW-19C (680-133511-8), MW-19D (680-133511-9), SS-3 (680-133511-10), MW-19B (680-133511-11) and Trip Blank (680-133511-12) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 01/03/2017 and 12/31/2016.

Reanalysis of the following sample was performed outside of the analytical holding time due to overdilution in the original run: MW-19B (680-133511-11).

Reanalysis of the following sample was performed outside of the analytical holding time due to an E value in the initial analysis: MW-19D (680-133511-9).

Chloromethane and Vinyl chloride failed the recovery criteria low for LCS 680-463939/4. For LCSD 680-463939/5, Chloromethane failed the recovery criteria low. Methylene Chloride failed the recovery criteria high. Also, Chloroethane exceeded the RPD limit. Refer to the QC report for details.

Refer to the QC report for details.

Samples MW-16C (680-133511-3)[10X], MW-19D (680-133511-9)[2X], MW-19B (680-133511-11)[2X] and MW-19B (680-133511-11)[5X] required dilution prior to analysis. 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 680-463878, 680-463881, 680-463936.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

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## **Sample Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-133511-1	MW-15C	Water	12/19/16 07:55	12/20/16 11:30
680-133511-2	MW-24C	Water	12/19/16 08:20	12/20/16 11:30
680-133511-3	MW-16C	Water	12/19/16 08:45	12/20/16 11:30
680-133511-4	MW-20C	Water	12/19/16 09:10	12/20/16 11:30
680-133511-5	SS-2	Water	12/19/16 09:20	12/20/16 11:30
680-133511-8	MW-19C	Water	12/19/16 10:35	12/20/16 11:30
680-133511-9	MW-19D	Water	12/19/16 10:45	12/20/16 11:30
680-133511-10	SS-3	Water	12/19/16 11:25	12/20/16 11:30
680-133511-11	MW-19B	Water	12/19/16 12:40	12/20/16 11:30
680-133511-12	Trip Blank	Water	12/19/16 15:00	12/20/16 11:30
680-133594-1	SS-1	Water	12/19/16 09:25	12/22/16 10:15
680-133594-2	OF-2	Water	12/19/16 09:30	12/22/16 10:15

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## **Method Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

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

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## **Definitions/Glossary**

Client: EHS Support, LLC Project/Site: Ashland Alterman TestAmerica Job ID: 680-133511-1

### **Qualifiers**

### **GC/MS VOA**

Qualifier	Qualifier Description
Н	Sample was prepped or analyzed beyond the specified holding time
*	LCS or LCSD is outside acceptance limits.

RPD of the LCS and LCSD exceeds the control limits

### **Glossary**

Abbreviation	These commonly used abbreviations may or may not be present in this report.
n	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 Not detected at the reporting limit (or MDL or EDL if shown) ND

**PQL Practical Quantitation Limit** 

QC **Quality Control RER** Relative error ratio

RLReporting Limit or Requested Limit (Radiochemistry)

**RPD** Relative Percent Difference, a measure of the relative difference between two points

TEF Toxicity Equivalent Factor (Dioxin) Toxicity Equivalent Quotient (Dioxin) **TEQ** 

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-15C						Lab Sa	ım	ple ID: 6	80-133511-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	5.9		1.0		ug/L	1	_	8260B	Total/NA
Tetrachloroethene	3.9		1.0		ug/L	1		8260B	Total/NA
Client Sample ID: MW-24C						Lab Sa	ım	ple ID: 6	80-133511-2
Analyte		Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0		ug/L	1	_	8260B	Total/NA
Client Sample ID: MW-16C						Lab Sa	ım	ple ID: 6	80-133511-3
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		10		ug/L	10	_	8260B	Total/NA
Tetrachloroethene	800		10		ug/L	10		8260B	Total/NA
Trichloroethene	80		10		ug/L	10		8260B	Total/NA
Client Sample ID: MW-20C						Lab Sa	ım	ple ID: 6	80-133511-4
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	43		1.0		ug/L		_	8260B	Total/NA
Tetrachloroethene	100		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	31		1.0		ug/L	1		8260B	Total/NA
Client Sample ID: SS-2						Lab Sa	ım	ple ID: 6	80-133511-
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.4		1.0		ug/L	1	_	8260B	Total/NA
Tetrachloroethene	14		1.0		ug/L	1		8260B	Total/NA
Trichloroethene -	1.5		1.0		ug/L	1		8260B	Total/NA
Client Sample ID: MW-19C						Lab Sa	ım	ple ID: 6	80-133511-8
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	51		1.0		ug/L	1	_	8260B	Total/NA
Tetrachloroethene	190		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260B	Total/NA
Client Sample ID: MW-19D						Lab Sa	ım	ple ID: 6	80-133511-9
Analyte		Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	66		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	31		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	190	Н	2.0		ug/L	2		8260B	Total/NA
Client Sample ID: SS-3									

This Detection Summary does not include radiochemical test results.

Result Qualifier

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3.2

Analyte

cis-1,2-Dichloroethene

Tetrachloroethene

Trichloroethene

TestAmerica Savannah

**Prep Type** 

Total/NA

Total/NA

Total/NA

1/5/2017

Dil Fac D Method

1

8260B

8260B

8260B

RL

1.0

1.0

1.0

MDL Unit

ug/L

ug/L

ug/L

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## **Detection Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

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Client Sample ID: MW-19B

**Client Sample ID: Trip Blank** 

Lab Sample ID: 680-133511-11

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac D	Method	Prep Type
cis-1,2-Dichloroethene	110	5.0	ug/L		8260B	Total/NA
Tetrachloroethene	180	5.0	ug/L	5	8260B	Total/NA
Trichloroethene	45	5.0	ug/L	5	8260B	Total/NA

Lab Sample ID: 680-133511-12

No Detections.

Client Sample ID: SS-1 Lab Sample ID: 680-133594-1

Analyte	Result Qualifier	RL	MDL Unit	Dil Fac	O Method	Prep Type
cis-1,2-Dichloroethene	9.6	1.0	ug/L		8260B	Total/NA
Tetrachloroethene	82	1.0	ug/L	1	8260B	Total/NA
Trichloroethene	7.7	1.0	ug/L	1	8260B	Total/NA

Client Sample ID: OF-2 Lab Sample ID: 680-133594-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fa	c D	Method	Prep Type
cis-1,2-Dichloroethene	3.0		1.0		ug/L		1 _	8260B	Total/NA
Tetrachloroethene	27		1.0		ug/L		1	8260B	Total/NA
Trichloroethene	4.7		1.0		ug/L		1	8260B	Total/NA

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Lab Sample ID: 680-133511-1

Date Collected: 12/19/16 07:55 Date Received: 12/20/16 11:30

**Client Sample ID: MW-15C** 

**Matrix: Water** 

Method: 8260B - Volatile O Analyte	Result Q	ualifier RL	MDL		D	Prepared	Analyzed	Dil Fac
Acetone	<10	10		ug/L			12/31/16 15:31	1
Benzene	<1.0	1.0		ug/L			12/31/16 15:31	1
Bromoform	<1.0	1.0		ug/L			12/31/16 15:31	1
Bromomethane	<5.0	5.0		ug/L			12/31/16 15:31	1
2-Butanone (MEK)	<10	10		ug/L			12/31/16 15:31	1
Carbon disulfide	<2.0	2.0		ug/L			12/31/16 15:31	1
Carbon tetrachloride	<1.0	1.0		ug/L			12/31/16 15:31	1
Chlorobenzene	<1.0	1.0		ug/L			12/31/16 15:31	1
Chlorodibromomethane	<1.0	1.0		ug/L			12/31/16 15:31	1
Chloroethane	<5.0	5.0		ug/L			12/31/16 15:31	1
Chloroform	5.9	1.0		ug/L			12/31/16 15:31	1
Chloromethane	<1.0	1.0		ug/L			12/31/16 15:31	1
cis-1,2-Dichloroethene	<1.0	1.0		ug/L			12/31/16 15:31	1
cis-1,3-Dichloropropene	<1.0	1.0		ug/L			12/31/16 15:31	1
Dichlorobromomethane	<1.0	1.0		ug/L			12/31/16 15:31	1
1,1-Dichloroethane	<1.0	1.0		ug/L			12/31/16 15:31	1
1,2-Dichloroethane	<1.0	1.0		ug/L			12/31/16 15:31	1
1,1-Dichloroethene	<1.0	1.0		ug/L			12/31/16 15:31	1
1,2-Dichloropropane	<1.0	1.0		ug/L			12/31/16 15:31	1
Ethylbenzene	<1.0	1.0		ug/L			12/31/16 15:31	1
2-Hexanone	<10	10		ug/L			12/31/16 15:31	1
Methylene Chloride	<5.0	5.0		ug/L			12/31/16 15:31	1
4-Methyl-2-pentanone (MIBK)	<10	10		ug/L			12/31/16 15:31	1
Styrene	<1.0	1.0		ug/L			12/31/16 15:31	1
1,1,2,2-Tetrachloroethane	<1.0	1.0		ug/L			12/31/16 15:31	1
Tetrachloroethene	3.9	1.0		ug/L			12/31/16 15:31	1
Toluene	<1.0	1.0		ug/L			12/31/16 15:31	1
trans-1,2-Dichloroethene	<1.0	1.0		ug/L			12/31/16 15:31	1
trans-1,3-Dichloropropene	<1.0	1.0		ug/L			12/31/16 15:31	1
1,1,1-Trichloroethane	<1.0	1.0		ug/L			12/31/16 15:31	1
1,1,2-Trichloroethane	<1.0	1.0		ug/L			12/31/16 15:31	1
Trichloroethene	<1.0	1.0		ug/L			12/31/16 15:31	1
Vinyl chloride	<1.0	1.0		ug/L			12/31/16 15:31	1
Xylenes, Total	<1.0	1.0		ug/L			12/31/16 15:31	1
Surrogate	%Recovery Q	ualifier Limits				Prepared	Analyzed	Dil Fa
4-Bromofluorobenzene (Surr)	101	80 - 120			-		12/31/16 15:31	
Dibromofluoromethane (Surr)	105	80 - 122					12/31/16 15:31	1
1,2-Dichloroethane-d4 (Surr)	110	73 - 131					12/31/16 15:31	1

**Client Sample ID: MW-24C** Lab Sample ID: 680-133511-2 Date Collected: 12/19/16 08:20 **Matrix: Water** 

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Date Received: 12/20/16 11:30

Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)									
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac		
Acetone	<10	10	ug/L			12/31/16 15:51	1		
Benzene	<1.0	1.0	ug/L			12/31/16 15:51	1		
Bromoform	<1.0	1.0	ug/L			12/31/16 15:51	1		

TestAmerica Savannah

12/31/16 15:31

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1/5/2017

Client: EHS Support, LLC Project/Site: Ashland Alterman

Lab Sample ID: 680-133511-2

Matrix: Water

**Client Sample ID: MW-24C** Date Collected: 12/19/16 08:20

Date Received: 12/20/16 11:30

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<5.0	5.0	ug/L			12/31/16 15:51	1
2-Butanone (MEK)	<10	10	ug/L			12/31/16 15:51	1
Carbon disulfide	<2.0	2.0	ug/L			12/31/16 15:51	1
Carbon tetrachloride	<1.0	1.0	ug/L			12/31/16 15:51	1
Chlorobenzene	<1.0	1.0	ug/L			12/31/16 15:51	1
Chlorodibromomethane	<1.0	1.0	ug/L			12/31/16 15:51	1
Chloroethane	<5.0	5.0	ug/L			12/31/16 15:51	1
Chloroform	<1.0	1.0	ug/L			12/31/16 15:51	1
Chloromethane	<1.0	1.0	ug/L			12/31/16 15:51	1
cis-1,2-Dichloroethene	<1.0	1.0	ug/L			12/31/16 15:51	1
cis-1,3-Dichloropropene	<1.0	1.0	ug/L			12/31/16 15:51	1
Dichlorobromomethane	<1.0	1.0	ug/L			12/31/16 15:51	1
1,1-Dichloroethane	<1.0	1.0	ug/L			12/31/16 15:51	1
1,2-Dichloroethane	<1.0	1.0	ug/L			12/31/16 15:51	1
1,1-Dichloroethene	<1.0	1.0	ug/L			12/31/16 15:51	1
1,2-Dichloropropane	<1.0	1.0	ug/L			12/31/16 15:51	1
Ethylbenzene	<1.0	1.0	ug/L			12/31/16 15:51	1
2-Hexanone	<10	10	ug/L			12/31/16 15:51	1
Methylene Chloride	<5.0	5.0	ug/L			12/31/16 15:51	1
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L			12/31/16 15:51	1
Styrene	<1.0	1.0	ug/L			12/31/16 15:51	1
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L			12/31/16 15:51	1
Tetrachloroethene	11	1.0	ug/L			12/31/16 15:51	1
Toluene	<1.0	1.0	ug/L			12/31/16 15:51	1
trans-1,2-Dichloroethene	<1.0	1.0	ug/L			12/31/16 15:51	1
trans-1,3-Dichloropropene	<1.0	1.0	ug/L			12/31/16 15:51	1
1,1,1-Trichloroethane	<1.0	1.0	ug/L			12/31/16 15:51	1
1,1,2-Trichloroethane	<1.0	1.0	ug/L			12/31/16 15:51	1
Trichloroethene	<1.0	1.0	ug/L			12/31/16 15:51	1
Vinyl chloride	<1.0	1.0	ug/L			12/31/16 15:51	1
Xylenes, Total	<1.0	1.0	ug/L			12/31/16 15:51	1

Surrogate	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		80 - 120	_		12/31/16 15:51	1
Dibromofluoromethane (Surr)	104		80 - 122			12/31/16 15:51	1
1,2-Dichloroethane-d4 (Surr)	110		73 - 131			12/31/16 15:51	1
Toluene-d8 (Surr)	99		80 - 120			12/31/16 15:51	1

**Client Sample ID: MW-16C** Lab Sample ID: 680-133511-3 Date Collected: 12/19/16 08:45 **Matrix: Water** Date Received: 12/20/16 11:30

Method: 8260B - Volatile Org	ganic Compounds (GC/M	S)					
Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<100	100	ug/L			12/31/16 16:12	10
Benzene	<10	10	ug/L			12/31/16 16:12	10
Bromoform	<10	10	ug/L			12/31/16 16:12	10
Bromomethane	<50	50	ug/L			12/31/16 16:12	10
2-Butanone (MEK)	<100	100	ug/L			12/31/16 16:12	10
Carbon disulfide	<20	20	ug/L			12/31/16 16:12	10

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Lab Sample ID: 680-133511-3

**Matrix: Water** 

Client Sample ID: MW-16C

Date Collected: 12/19/16 08:45 Date Received: 12/20/16 11:30

Analyte	Result Qua	lifier RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<10	10	ug/L			12/31/16 16:12	10
Chlorobenzene	<10	10	ug/L			12/31/16 16:12	10
Chlorodibromomethane	<10	10	ug/L			12/31/16 16:12	10
Chloroethane	<50	50	ug/L			12/31/16 16:12	10
Chloroform	<10	10	ug/L			12/31/16 16:12	10
Chloromethane	<10	10	ug/L			12/31/16 16:12	10
cis-1,2-Dichloroethene	130	10	ug/L			12/31/16 16:12	10
cis-1,3-Dichloropropene	<10	10	ug/L			12/31/16 16:12	10
Dichlorobromomethane	<10	10	ug/L			12/31/16 16:12	10
1,1-Dichloroethane	<10	10	ug/L			12/31/16 16:12	10
1,2-Dichloroethane	<10	10	ug/L			12/31/16 16:12	10
1,1-Dichloroethene	<10	10	ug/L			12/31/16 16:12	10
1,2-Dichloropropane	<10	10	ug/L			12/31/16 16:12	10
Ethylbenzene	<10	10	ug/L			12/31/16 16:12	10
2-Hexanone	<100	100	ug/L			12/31/16 16:12	10
Methylene Chloride	<50	50	ug/L			12/31/16 16:12	10
4-Methyl-2-pentanone (MIBK)	<100	100	ug/L			12/31/16 16:12	10
Styrene	<10	10	ug/L			12/31/16 16:12	10
1,1,2,2-Tetrachloroethane	<10	10	ug/L			12/31/16 16:12	10
Tetrachloroethene	800	10	ug/L			12/31/16 16:12	10
Toluene	<10	10	ug/L			12/31/16 16:12	10
trans-1,2-Dichloroethene	<10	10	ug/L			12/31/16 16:12	10
trans-1,3-Dichloropropene	<10	10	ug/L			12/31/16 16:12	10
1,1,1-Trichloroethane	<10	10	ug/L			12/31/16 16:12	10
1,1,2-Trichloroethane	<10	10	ug/L			12/31/16 16:12	10
Trichloroethene	80	10	ug/L			12/31/16 16:12	10
Vinyl chloride	<10	10	ug/L			12/31/16 16:12	10
Xylenes, Total	<10	10	ug/L			12/31/16 16:12	10
Surrogate	%Recovery Qua	lifier Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	80 - 120				12/31/16 16:12	10
Dibromofluoromethane (Surr)	103	80 - 122				12/31/16 16:12	10
1,2-Dichloroethane-d4 (Surr)	109	73 - 131				12/31/16 16:12	10
Toluene-d8 (Surr)	97	80 - 120				12/31/16 16:12	10

Client Sample ID: MW-20C

Date Collected: 12/19/16 09:10

Lab Sample ID: 680-133511-4

Matrix: Water

Date Received: 12/20/16 11:30

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10	10	ug/L			12/31/16 16:32	1
Benzene	<1.0	1.0	ug/L			12/31/16 16:32	1
Bromoform	<1.0	1.0	ug/L			12/31/16 16:32	1
Bromomethane	<5.0	5.0	ug/L			12/31/16 16:32	1
2-Butanone (MEK)	<10	10	ug/L			12/31/16 16:32	1
Carbon disulfide	<2.0	2.0	ug/L			12/31/16 16:32	1
Carbon tetrachloride	<1.0	1.0	ug/L			12/31/16 16:32	1
Chlorobenzene	<1.0	1.0	ug/L			12/31/16 16:32	1
Chlorodibromomethane	<1.0	1.0	ug/L			12/31/16 16:32	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

**Client Sample ID: MW-20C** Lab Sample ID: 680-133511-4 **Matrix: Water** 

Date Collected: 12/19/16 09:10 Date Received: 12/20/16 11:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Chloroethane	<5.0		5.0		ug/L			12/31/16 16:32	
Chloroform	<1.0		1.0		ug/L			12/31/16 16:32	· · · · · · · · ·
Chloromethane	<1.0		1.0		ug/L			12/31/16 16:32	
cis-1,2-Dichloroethene	43		1.0		ug/L			12/31/16 16:32	· · · · · · · · ·
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 16:32	
Dichlorobromomethane	<1.0		1.0		ug/L			12/31/16 16:32	
1,1-Dichloroethane	<1.0		1.0		ug/L			12/31/16 16:32	
1,2-Dichloroethane	<1.0		1.0		ug/L			12/31/16 16:32	•
1,1-Dichloroethene	<1.0		1.0		ug/L			12/31/16 16:32	•
1,2-Dichloropropane	<1.0		1.0		ug/L			12/31/16 16:32	•
Ethylbenzene	<1.0		1.0		ug/L			12/31/16 16:32	•
2-Hexanone	<10		10		ug/L			12/31/16 16:32	•
Methylene Chloride	<5.0		5.0		ug/L			12/31/16 16:32	
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/31/16 16:32	•
Styrene	<1.0		1.0		ug/L			12/31/16 16:32	
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/31/16 16:32	
Tetrachloroethene	100		1.0		ug/L			12/31/16 16:32	•
Toluene	<1.0		1.0		ug/L			12/31/16 16:32	•
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/31/16 16:32	
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 16:32	•
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/31/16 16:32	
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/31/16 16:32	· · · · · · · · ·
Trichloroethene	31		1.0		ug/L			12/31/16 16:32	
Vinyl chloride	<1.0		1.0		ug/L			12/31/16 16:32	

Surrogate	%Recovery Qualifier	Limits	Prepared A	nalyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	80 - 120	12/3	31/16 16:32	1
Dibromofluoromethane (Surr)	105	80 - 122	12/3	31/16 16:32	1
1,2-Dichloroethane-d4 (Surr)	109	73 - 131	12/3	31/16 16:32	1
Toluene-d8 (Surr)	99	80 - 120	12/3	31/16 16:32	1

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ug/L

<1.0

**Client Sample ID: SS-2** Lab Sample ID: 680-133511-5 Date Collected: 12/19/16 09:20 **Matrix: Water** 

Date Received: 12/20/16 11:30

Xylenes, Total

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10	10		ug/L			12/31/16 16:52	1
Benzene	<1.0	1.0		ug/L			12/31/16 16:52	1
Bromoform	<1.0	1.0		ug/L			12/31/16 16:52	1
Bromomethane	<5.0	5.0		ug/L			12/31/16 16:52	1
2-Butanone (MEK)	<10	10		ug/L			12/31/16 16:52	1
Carbon disulfide	<2.0	2.0		ug/L			12/31/16 16:52	1
Carbon tetrachloride	<1.0	1.0		ug/L			12/31/16 16:52	1
Chlorobenzene	<1.0	1.0		ug/L			12/31/16 16:52	1
Chlorodibromomethane	<1.0	1.0		ug/L			12/31/16 16:52	1
Chloroethane	<5.0	5.0		ug/L			12/31/16 16:52	1
Chloroform	<1.0	1.0		ug/L			12/31/16 16:52	1
Chloromethane	<1.0	1.0		ug/L			12/31/16 16:52	1

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12/31/16 16:32

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: SS-2 Lab Sample ID: 680-133511-5

Date Collected: 12/19/16 09:20 Matrix: Water Date Received: 12/20/16 11:30

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fa
cis-1,2-Dichloroethene	1.4	1.0	ug/L			12/31/16 16:52	
cis-1,3-Dichloropropene	<1.0	1.0	ug/L			12/31/16 16:52	
Dichlorobromomethane	<1.0	1.0	ug/L			12/31/16 16:52	
1,1-Dichloroethane	<1.0	1.0	ug/L			12/31/16 16:52	
1,2-Dichloroethane	<1.0	1.0	ug/L			12/31/16 16:52	
1,1-Dichloroethene	<1.0	1.0	ug/L			12/31/16 16:52	
1,2-Dichloropropane	<1.0	1.0	ug/L			12/31/16 16:52	
Ethylbenzene	<1.0	1.0	ug/L			12/31/16 16:52	
2-Hexanone	<10	10	ug/L			12/31/16 16:52	
Methylene Chloride	<5.0	5.0	ug/L			12/31/16 16:52	
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L			12/31/16 16:52	
Styrene	<1.0	1.0	ug/L			12/31/16 16:52	
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L			12/31/16 16:52	
Tetrachloroethene	14	1.0	ug/L			12/31/16 16:52	
Toluene	<1.0	1.0	ug/L			12/31/16 16:52	
trans-1,2-Dichloroethene	<1.0	1.0	ug/L			12/31/16 16:52	
trans-1,3-Dichloropropene	<1.0	1.0	ug/L			12/31/16 16:52	
1,1,1-Trichloroethane	<1.0	1.0	ug/L			12/31/16 16:52	
1,1,2-Trichloroethane	<1.0	1.0	ug/L			12/31/16 16:52	
Trichloroethene	1.5	1.0	ug/L			12/31/16 16:52	
Vinyl chloride	<1.0	1.0	ug/L			12/31/16 16:52	
Xylenes, Total	<1.0	1.0	ug/L			12/31/16 16:52	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106	80 - 120		12/31/16 16:52	1
Dibromofluoromethane (Surr)	106	80 - 122		12/31/16 16:52	1
1,2-Dichloroethane-d4 (Surr)	112	73 - 131		12/31/16 16:52	1
Toluene-d8 (Surr)	99	80 - 120		12/31/16 16:52	1

Client Sample ID: MW-19C

Date Collected: 12/19/16 10:35

Date Received: 12/20/16 11:30

Lab Sample ID: 680-133511-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/31/16 17:13	1
Benzene	<1.0		1.0		ug/L			12/31/16 17:13	1
Bromoform	<1.0		1.0		ug/L			12/31/16 17:13	1
Bromomethane	<5.0		5.0		ug/L			12/31/16 17:13	1
2-Butanone (MEK)	<10		10		ug/L			12/31/16 17:13	1
Carbon disulfide	<2.0		2.0		ug/L			12/31/16 17:13	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/31/16 17:13	1
Chlorobenzene	<1.0		1.0		ug/L			12/31/16 17:13	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/31/16 17:13	1
Chloroethane	<5.0		5.0		ug/L			12/31/16 17:13	1
Chloroform	<1.0		1.0		ug/L			12/31/16 17:13	1
Chloromethane	<1.0		1.0		ug/L			12/31/16 17:13	1
cis-1,2-Dichloroethene	51		1.0		ug/L			12/31/16 17:13	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 17:13	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/31/16 17:13	1

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1/5/2017

Client: EHS Support, LLC Project/Site: Ashland Alterman

**Client Sample ID: MW-19C** 

Date Collected: 12/19/16 10:35 Date Received: 12/20/16 11:30

Lab Sample ID: 680-133511-8

Matrix: Water

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			12/31/16 17:13	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/31/16 17:13	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/31/16 17:13	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/31/16 17:13	1
Ethylbenzene	<1.0		1.0		ug/L			12/31/16 17:13	1
2-Hexanone	<10		10		ug/L			12/31/16 17:13	1
Methylene Chloride	<5.0		5.0		ug/L			12/31/16 17:13	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/31/16 17:13	1
Styrene	<1.0		1.0		ug/L			12/31/16 17:13	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/31/16 17:13	1
Tetrachloroethene	190		1.0		ug/L			12/31/16 17:13	1
Toluene	<1.0		1.0		ug/L			12/31/16 17:13	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/31/16 17:13	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 17:13	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/31/16 17:13	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/31/16 17:13	1
Trichloroethene	24		1.0		ug/L			12/31/16 17:13	1
Vinyl chloride	<1.0		1.0		ug/L			12/31/16 17:13	1
Xylenes, Total	<1.0		1.0		ug/L			12/31/16 17:13	1

Surrogate	%Recovery	Qualifier Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107	80 - 120		12/31/16 17:13	1
Dibromofluoromethane (Surr)	103	80 - 122		12/31/16 17:13	1
1,2-Dichloroethane-d4 (Surr)	109	73 - 131		12/31/16 17:13	1
Toluene-d8 (Surr)	98	80 - 120		12/31/16 17:13	1

**Client Sample ID: MW-19D** 

Date Collected: 12/19/16 10:45 Date Received: 12/20/16 11:30

**Matrix: Water** 

Analyte	3	•	Qualifier	,
Acetone		<10		

Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10	10	ug/L			12/31/16 17:33	1
Benzene	<1.0	1.0	ug/L			12/31/16 17:33	1
Bromoform	<1.0	1.0	ug/L			12/31/16 17:33	1
Bromomethane	<5.0	5.0	ug/L			12/31/16 17:33	1
2-Butanone (MEK)	<10	10	ug/L			12/31/16 17:33	1
Carbon disulfide	<2.0	2.0	ug/L			12/31/16 17:33	1
Carbon tetrachloride	<1.0	1.0	ug/L			12/31/16 17:33	1
Chlorobenzene	<1.0	1.0	ug/L			12/31/16 17:33	1
Chlorodibromomethane	<1.0	1.0	ug/L			12/31/16 17:33	1
Chloroethane	<5.0	5.0	ug/L			12/31/16 17:33	1
Chloroform	<1.0	1.0	ug/L			12/31/16 17:33	1
Chloromethane	<1.0	1.0	ug/L			12/31/16 17:33	1
cis-1,2-Dichloroethene	66	1.0	ug/L			12/31/16 17:33	1
cis-1,3-Dichloropropene	<1.0	1.0	ug/L			12/31/16 17:33	1
Dichlorobromomethane	<1.0	1.0	ug/L			12/31/16 17:33	1
1,1-Dichloroethane	<1.0	1.0	ug/L			12/31/16 17:33	1
1,2-Dichloroethane	<1.0	1.0	ug/L			12/31/16 17:33	1
1,1-Dichloroethene	<1.0	1.0	ug/L			12/31/16 17:33	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

**Client Sample ID: MW-19D** 

Date Collected: 12/19/16 10:45 Date Received: 12/20/16 11:30

Lab Sample ID: 680-133511-9

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			12/31/16 17:33	1
Ethylbenzene	<1.0		1.0		ug/L			12/31/16 17:33	1
2-Hexanone	<10		10		ug/L			12/31/16 17:33	1
Methylene Chloride	<5.0		5.0		ug/L			12/31/16 17:33	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/31/16 17:33	1
Styrene	<1.0		1.0		ug/L			12/31/16 17:33	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/31/16 17:33	1
Toluene	<1.0		1.0		ug/L			12/31/16 17:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/31/16 17:33	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 17:33	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/31/16 17:33	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/31/16 17:33	1
Trichloroethene	31		1.0		ug/L			12/31/16 17:33	1
Vinyl chloride	<1.0		1.0		ug/L			12/31/16 17:33	1
Xylenes, Total	<1.0		1.0		ug/L			12/31/16 17:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	107		80 - 120			-		12/31/16 17:33	1
Dibromofluoromethane (Surr)	105		80 - 122					12/31/16 17:33	1
1,2-Dichloroethane-d4 (Surr)	109		73 - 131					12/31/16 17:33	1
Toluene-d8 (Surr)	98		80 - 120					12/31/16 17:33	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	190	Н	2.0		ug/L			01/03/17 15:02	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120					01/03/17 15:02	2
Dibromofluoromethane (Surr)	100		80 - 122					01/03/17 15:02	2
1,2-Dichloroethane-d4 (Surr)	102		73 - 131					01/03/17 15:02	2
Toluene-d8 (Surr)	98		80 - 120					01/03/17 15:02	2

**Client Sample ID: SS-3** Lab Sample ID: 680-133511-10 Date Collected: 12/19/16 11:25 **Matrix: Water** 

Date Received: 12/20/16 11:30

Method: 8260B - Volatile O Analyte	Result Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10	10	ug/L	<del></del>		12/31/16 17:54	1
Benzene	<1.0	1.0	ug/L			12/31/16 17:54	1
Bromoform	<1.0	1.0	ug/L			12/31/16 17:54	1
Bromomethane	<5.0	5.0	ug/L			12/31/16 17:54	1
2-Butanone (MEK)	<10	10	ug/L			12/31/16 17:54	1
Carbon disulfide	<2.0	2.0	ug/L			12/31/16 17:54	1
Carbon tetrachloride	<1.0	1.0	ug/L			12/31/16 17:54	1
Chlorobenzene	<1.0	1.0	ug/L			12/31/16 17:54	1
Chlorodibromomethane	<1.0	1.0	ug/L			12/31/16 17:54	1
Chloroethane	<5.0	5.0	ug/L			12/31/16 17:54	1
Chloroform	<1.0	1.0	ug/L			12/31/16 17:54	1
Chloromethane	<1.0	1.0	ug/L			12/31/16 17:54	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Lab Sample ID: 680-133511-10 **Client Sample ID: SS-3** 

Date Collected: 12/19/16 11:25 **Matrix: Water** Date Received: 12/20/16 11:30

Analyte	Result Qualifier	RL	MDL Unit	D Prepar	ed Analyzed	Dil Fa
cis-1,2-Dichloroethene	3.7	1.0	ug/L		12/31/16 17:54	
cis-1,3-Dichloropropene	<1.0	1.0	ug/L		12/31/16 17:54	
Dichlorobromomethane	<1.0	1.0	ug/L		12/31/16 17:54	
1,1-Dichloroethane	<1.0	1.0	ug/L		12/31/16 17:54	
1,2-Dichloroethane	<1.0	1.0	ug/L		12/31/16 17:54	
1,1-Dichloroethene	<1.0	1.0	ug/L		12/31/16 17:54	
1,2-Dichloropropane	<1.0	1.0	ug/L		12/31/16 17:54	
Ethylbenzene	<1.0	1.0	ug/L		12/31/16 17:54	
2-Hexanone	<10	10	ug/L		12/31/16 17:54	
Methylene Chloride	<5.0	5.0	ug/L		12/31/16 17:54	
4-Methyl-2-pentanone (MIBK)	<10	10	ug/L		12/31/16 17:54	
Styrene	<1.0	1.0	ug/L		12/31/16 17:54	
1,1,2,2-Tetrachloroethane	<1.0	1.0	ug/L		12/31/16 17:54	
Tetrachloroethene	34	1.0	ug/L		12/31/16 17:54	
Toluene	<1.0	1.0	ug/L		12/31/16 17:54	
trans-1,2-Dichloroethene	<1.0	1.0	ug/L		12/31/16 17:54	
trans-1,3-Dichloropropene	<1.0	1.0	ug/L		12/31/16 17:54	
1,1,1-Trichloroethane	<1.0	1.0	ug/L		12/31/16 17:54	
1,1,2-Trichloroethane	<1.0	1.0	ug/L		12/31/16 17:54	
Trichloroethene	3.2	1.0	ug/L		12/31/16 17:54	
Vinyl chloride	<1.0	1.0	ug/L		12/31/16 17:54	
Xylenes, Total	<1.0	1.0	ug/L		12/31/16 17:54	

Surrogate	%Recovery Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109	80 - 120		12/31/16 17:54	1
Dibromofluoromethane (Surr)	107	80 - 122		12/31/16 17:54	1
1,2-Dichloroethane-d4 (Surr)	112	73 - 131		12/31/16 17:54	1
Toluene-d8 (Surr)	98	80 - 120		12/31/16 17:54	1

Client Sample ID: MW-19B Lab Sample ID: 680-133511-11 Date Collected: 12/19/16 12:40 **Matrix: Water** Date Received: 12/20/16 11:30

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/L			12/31/16 18:14	5
Benzene	<5.0		5.0		ug/L			12/31/16 18:14	5
Bromoform	<5.0		5.0		ug/L			12/31/16 18:14	5
Bromomethane	<25		25		ug/L			12/31/16 18:14	5
2-Butanone (MEK)	<50		50		ug/L			12/31/16 18:14	5
Carbon disulfide	<10		10		ug/L			12/31/16 18:14	5
Carbon tetrachloride	<5.0		5.0		ug/L			12/31/16 18:14	5
Chlorobenzene	<5.0		5.0		ug/L			12/31/16 18:14	5
Chlorodibromomethane	<5.0		5.0		ug/L			12/31/16 18:14	5
Chloroethane	<25		25		ug/L			12/31/16 18:14	5
Chloroform	<5.0		5.0		ug/L			12/31/16 18:14	5
Chloromethane	<5.0		5.0		ug/L			12/31/16 18:14	5
cis-1,2-Dichloroethene	110		5.0		ug/L			12/31/16 18:14	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			12/31/16 18:14	5
Dichlorobromomethane	<5.0		5.0		ug/L			12/31/16 18:14	5

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Client Sample ID: MW-19B

Date Collected: 12/19/16 12:40 Date Received: 12/20/16 11:30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 680-133511-11

**Matrix: Water** 

MDL Unit Result Qualifier Dil Fac **Analyte** RL D Prepared Analyzed 1,1-Dichloroethane <5.0 5.0 ug/L 12/31/16 18:14 1,2-Dichloroethane < 5.0 5.0 ug/L 12/31/16 18:14 5 1,1-Dichloroethene <5.0 5.0 ug/L 12/31/16 18:14 5 1,2-Dichloropropane <5.0 5.0 ug/L 12/31/16 18:14 5 Ethylbenzene <5.0 5.0 ug/L 5 12/31/16 18:14 5 2-Hexanone <50 50 ug/L 12/31/16 18:14 25 5 Methylene Chloride <25 ug/L 12/31/16 18:14 4-Methyl-2-pentanone (MIBK) <50 50 ug/L 12/31/16 18:14 5 5 <5.0 5.0 Styrene ug/L 12/31/16 18:14 1,1,2,2-Tetrachloroethane <5.0 5.0 ug/L 12/31/16 18:14 5 5 **Tetrachloroethene** 5.0 ug/L 12/31/16 18:14 180 Toluene <5.0 5.0 ug/L 12/31/16 18:14 5 5.0 5 trans-1,2-Dichloroethene < 5.0 ug/L 12/31/16 18:14 trans-1,3-Dichloropropene < 5.0 5.0 ug/L 12/31/16 18:14 5 1,1,1-Trichloroethane <5.0 5.0 ug/L 5 12/31/16 18:14 5 1,1,2-Trichloroethane <5.0 5.0 ug/L 12/31/16 18:14 **Trichloroethene** 45 5.0 ug/L 12/31/16 18:14 5 Vinyl chloride <5.0 5.0 ug/L 12/31/16 18:14 5 Xylenes, Total < 5.0 5.0 ug/L 12/31/16 18:14

Dil Fac Surrogate %Recovery Qualifier Limits Prepared Analyzed 4-Bromofluorobenzene (Surr) 107 80 - 120 12/31/16 18:14 5 Dibromofluoromethane (Surr) 104 80 - 122 12/31/16 18:14 5 1,2-Dichloroethane-d4 (Surr) 110 73 - 131 12/31/16 18:14 5 Toluene-d8 (Surr) 98 80 - 120 12/31/16 18:14 5

Client Sample ID: Trip Blank

Date Collected: 12/19/16 15:00 Date Received: 12/20/16 11:30

Lab Sample ID: 680-133511-12

**Matrix: Water** 

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/31/16 11:46	1
Benzene	<1.0		1.0		ug/L			12/31/16 11:46	1
Bromoform	<1.0		1.0		ug/L			12/31/16 11:46	1
Bromomethane	<5.0		5.0		ug/L			12/31/16 11:46	1
2-Butanone (MEK)	<10		10		ug/L			12/31/16 11:46	1
Carbon disulfide	<2.0		2.0		ug/L			12/31/16 11:46	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/31/16 11:46	1
Chlorobenzene	<1.0		1.0		ug/L			12/31/16 11:46	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/31/16 11:46	1
Chloroethane	<5.0		5.0		ug/L			12/31/16 11:46	1
Chloroform	<1.0		1.0		ug/L			12/31/16 11:46	1
Chloromethane	<1.0		1.0		ug/L			12/31/16 11:46	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			12/31/16 11:46	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 11:46	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/31/16 11:46	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/31/16 11:46	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/31/16 11:46	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/31/16 11:46	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

**Client Sample ID: Trip Blank** Lab Sample ID: 680-133511-12

Date Collected: 12/19/16 15:00 **Matrix: Water** Date Received: 12/20/16 11:30

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0		1.0		ug/L			12/31/16 11:46	1
Ethylbenzene	<1.0		1.0		ug/L			12/31/16 11:46	1
2-Hexanone	<10		10		ug/L			12/31/16 11:46	1
Methylene Chloride	<5.0		5.0		ug/L			12/31/16 11:46	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			12/31/16 11:46	1
Styrene	<1.0		1.0		ug/L			12/31/16 11:46	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			12/31/16 11:46	1
Tetrachloroethene	<1.0		1.0		ug/L			12/31/16 11:46	1
Toluene	<1.0		1.0		ug/L			12/31/16 11:46	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			12/31/16 11:46	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 11:46	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			12/31/16 11:46	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			12/31/16 11:46	1
Trichloroethene	<1.0		1.0		ug/L			12/31/16 11:46	1
Vinyl chloride	<1.0		1.0		ug/L			12/31/16 11:46	1
Xylenes, Total	<1.0		1.0		ug/L			12/31/16 11:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	109		80 - 120			-		12/31/16 11:46	1
Dibromofluoromethane (Surr)	102		80 - 122					12/31/16 11:46	1
1,2-Dichloroethane-d4 (Surr)	107		73 - 131					12/31/16 11:46	1
Toluene-d8 (Surr)	100		80 - 120					12/31/16 11:46	1

**Client Sample ID: SS-1** Lab Sample ID: 680-133594-1 Date Collected: 12/19/16 09:25 **Matrix: Water** 

Date Received: 12/22/16 10:15

Analyte	Result (	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/31/16 18:35	1
Benzene	<1.0		1.0		ug/L			12/31/16 18:35	1
Bromoform	<1.0		1.0		ug/L			12/31/16 18:35	1
Bromomethane	<5.0		5.0		ug/L			12/31/16 18:35	1
2-Butanone (MEK)	<10		10		ug/L			12/31/16 18:35	1
Carbon disulfide	<2.0		2.0		ug/L			12/31/16 18:35	1
Carbon tetrachloride	<1.0		1.0		ug/L			12/31/16 18:35	1
Chlorobenzene	<1.0		1.0		ug/L			12/31/16 18:35	1
Chlorodibromomethane	<1.0		1.0		ug/L			12/31/16 18:35	1
Chloroethane	<5.0		5.0		ug/L			12/31/16 18:35	1
Chloroform	<1.0		1.0		ug/L			12/31/16 18:35	1
Chloromethane	<1.0		1.0		ug/L			12/31/16 18:35	1
cis-1,2-Dichloroethene	9.6		1.0		ug/L			12/31/16 18:35	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			12/31/16 18:35	1
Dichlorobromomethane	<1.0		1.0		ug/L			12/31/16 18:35	1
1,1-Dichloroethane	<1.0		1.0		ug/L			12/31/16 18:35	1
1,2-Dichloroethane	<1.0		1.0		ug/L			12/31/16 18:35	1
1,1-Dichloroethene	<1.0		1.0		ug/L			12/31/16 18:35	1
1,2-Dichloropropane	<1.0		1.0		ug/L			12/31/16 18:35	1
Ethylbenzene	<1.0		1.0		ug/L			12/31/16 18:35	1
2-Hexanone	<10		10		ug/L			12/31/16 18:35	1

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12/31/16 18:35

Client: EHS Support, LLC Project/Site: Ashland Alterman

Toluene-d8 (Surr)

Client Sample ID: SS-1 Lab Sample ID: 680-133594-1

Date Collected: 12/19/16 09:25 Matrix: Water Date Received: 12/22/16 10:15

Analyte	Result	Qualifier	RL	MDL (	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<5.0		5.0	ī	ug/L			12/31/16 18:35	1
4-Methyl-2-pentanone (MIBK)	<10		10	ι	ug/L			12/31/16 18:35	1
Styrene	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
Tetrachloroethene	82		1.0	ι	ug/L			12/31/16 18:35	1
Toluene	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
trans-1,2-Dichloroethene	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
trans-1,3-Dichloropropene	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
1,1,1-Trichloroethane	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
1,1,2-Trichloroethane	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
Trichloroethene	7.7		1.0	ι	ug/L			12/31/16 18:35	1
Vinyl chloride	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
Xylenes, Total	<1.0		1.0	ι	ug/L			12/31/16 18:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	106		80 - 120			-		12/31/16 18:35	1
Dibromofluoromethane (Surr)	105		80 - 122					12/31/16 18:35	1
1,2-Dichloroethane-d4 (Surr)	112		73 - 131					12/31/16 18:35	1

Client Sample ID: OF-2 Lab Sample ID: 680-133594-2

80 - 120

Date Collected: 12/19/16 09:30 Matrix: Water Date Received: 12/22/16 10:15

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10	10		ug/L			12/31/16 16:58	1
Benzene	<1.0	1.0		ug/L			12/31/16 16:58	1
Bromoform	<1.0	1.0		ug/L			12/31/16 16:58	1
Bromomethane	<5.0	5.0		ug/L			12/31/16 16:58	1
2-Butanone (MEK)	<10	10		ug/L			12/31/16 16:58	1
Carbon disulfide	<2.0	2.0		ug/L			12/31/16 16:58	1
Carbon tetrachloride	<1.0	1.0		ug/L			12/31/16 16:58	1
Chlorobenzene	<1.0	1.0		ug/L			12/31/16 16:58	1
Chlorodibromomethane	<1.0	1.0		ug/L			12/31/16 16:58	1
Chloroethane	<5.0	5.0		ug/L			12/31/16 16:58	1
Chloroform	<1.0	1.0		ug/L			12/31/16 16:58	1
Chloromethane	<1.0	1.0		ug/L			12/31/16 16:58	1
cis-1,2-Dichloroethene	3.0	1.0		ug/L			12/31/16 16:58	1
cis-1,3-Dichloropropene	<1.0	1.0		ug/L			12/31/16 16:58	1
Dichlorobromomethane	<1.0	1.0		ug/L			12/31/16 16:58	1
1,1-Dichloroethane	<1.0	1.0		ug/L			12/31/16 16:58	1
1,2-Dichloroethane	<1.0	1.0		ug/L			12/31/16 16:58	1
1,1-Dichloroethene	<1.0	1.0		ug/L			12/31/16 16:58	1
1,2-Dichloropropane	<1.0	1.0		ug/L			12/31/16 16:58	1
Ethylbenzene	<1.0	1.0		ug/L			12/31/16 16:58	1
2-Hexanone	<10	10		ug/L			12/31/16 16:58	1
Methylene Chloride	<5.0	5.0		ug/L			12/31/16 16:58	1
4-Methyl-2-pentanone (MIBK)	<10	10		ug/L			12/31/16 16:58	1
Styrene	<1.0	1.0		ug/L			12/31/16 16:58	1

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## **Client Sample Results**

Client: EHS Support, LLC Project/Site: Ashland Alterman TestAmerica Job ID: 680-133511-1

Lab Sample ID: 680-133594-2

Matrix: Water

**Client Sample ID: OF-2** 

Date Collected: 12/19/16 09:30 Date Received: 12/22/16 10:15

Method: 8260B - Volatile O Analyte	•	Qualifier	, RL	 Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	<1.0		1.0	 ug/L		-	12/31/16 16:58	1
Tetrachloroethene	27		1.0	ug/L			12/31/16 16:58	1
Toluene	<1.0		1.0	ug/L			12/31/16 16:58	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			12/31/16 16:58	1
trans-1,3-Dichloropropene	<1.0		1.0	ug/L			12/31/16 16:58	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			12/31/16 16:58	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			12/31/16 16:58	1
Trichloroethene	4.7		1.0	ug/L			12/31/16 16:58	1
Vinyl chloride	<1.0		1.0	ug/L			12/31/16 16:58	1
Xylenes, Total	<1.0		1.0	ug/L			12/31/16 16:58	1
Surrogate	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		-		12/31/16 16:58	1
Dibromofluoromethane (Surr)	100		80 - 122				12/31/16 16:58	1
1,2-Dichloroethane-d4 (Surr)	92		73 - 131				12/31/16 16:58	1
Toluene-d8 (Surr)	103		80 - 120				12/31/16 16:58	1

## **Surrogate Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

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Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water Prep Type: Total/NA

_			Pe	ercent Surro	ogate Reco
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(80-120)	(80-122)	(73-131)	(80-120)
680-133511-1	MW-15C	101	105	110	99
680-133511-2	MW-24C	104	104	110	99
680-133511-3	MW-16C	107	103	109	97
680-133511-4	MW-20C	106	105	109	99
680-133511-5	SS-2	106	106	112	99
680-133511-8	MW-19C	107	103	109	98
680-133511-9	MW-19D	107	105	109	98
680-133511-9 - DL	MW-19D	99	100	102	98
680-133511-10	SS-3	109	107	112	98
680-133511-11	MW-19B	107	104	110	98
680-133511-12	Trip Blank	109	102	107	100
680-133594-1	SS-1	106	105	112	98
680-133594-2	OF-2	95	100	92	103
LCS 680-463878/4	Lab Control Sample	98	101	91	102
LCS 680-463881/4	Lab Control Sample	98	105	114	95
LCS 680-463939/4	Lab Control Sample	93	99	105	87
LCSD 680-463878/6	Lab Control Sample Dup	99	100	90	102
LCSD 680-463881/5	Lab Control Sample Dup	97	101	104	99
LCSD 680-463939/5	Lab Control Sample Dup	98	106	110	92
MB 680-463878/9	Method Blank	95	105	99	103
MB 680-463881/10	Method Blank	106	102	107	98
MB 680-463939/9	Method Blank	102	100	101	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

TOL = Toluene-d8 (Surr)

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Client: EHS Support, LLC Project/Site: Ashland Alterman

## Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 680-463878/9 Client Sample ID: Method Blank **Matrix: Water Prep Type: Total/NA** 

**Analysis Batch: 463878** 

7 maryolo Batom 400070	МВ	MB						
Analyte	Result	Qualifier	RL	MDL Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10	ug/L			12/31/16 11:08	1
Benzene	<1.0		1.0	ug/L			12/31/16 11:08	1
Bromoform	<1.0		1.0	ug/L			12/31/16 11:08	1
Bromomethane	<5.0		5.0	ug/L			12/31/16 11:08	1
2-Butanone (MEK)	<10		10	ug/L			12/31/16 11:08	1
Carbon disulfide	<2.0		2.0	ug/L			12/31/16 11:08	1
Carbon tetrachloride	<1.0		1.0	ug/L			12/31/16 11:08	1
Chlorobenzene	<1.0		1.0	ug/L			12/31/16 11:08	1
Chlorodibromomethane	<1.0		1.0	ug/L			12/31/16 11:08	1
Chloroethane	<5.0		5.0	ug/L			12/31/16 11:08	1
Chloroform	<1.0		1.0	ug/L			12/31/16 11:08	1
Chloromethane	<1.0		1.0	ug/L			12/31/16 11:08	1
cis-1,2-Dichloroethene	<1.0		1.0	ug/L			12/31/16 11:08	1
cis-1,3-Dichloropropene	<1.0		1.0	ug/L			12/31/16 11:08	1
Dichlorobromomethane	<1.0		1.0	ug/L			12/31/16 11:08	1
1,1-Dichloroethane	<1.0		1.0	ug/L			12/31/16 11:08	1
1,2-Dichloroethane	<1.0		1.0	ug/L			12/31/16 11:08	1
1,1-Dichloroethene	<1.0		1.0	ug/L			12/31/16 11:08	1
1,2-Dichloropropane	<1.0		1.0	ug/L			12/31/16 11:08	1
Ethylbenzene	<1.0		1.0	ug/L			12/31/16 11:08	1
2-Hexanone	<10		10	ug/L			12/31/16 11:08	1
Methylene Chloride	<5.0		5.0	ug/L			12/31/16 11:08	1
4-Methyl-2-pentanone (MIBK)	<10		10	ug/L			12/31/16 11:08	1
Styrene	<1.0		1.0	ug/L			12/31/16 11:08	1
1,1,2,2-Tetrachloroethane	<1.0		1.0	ug/L			12/31/16 11:08	1
Tetrachloroethene	<1.0		1.0	ug/L			12/31/16 11:08	1
Toluene	<1.0		1.0	ug/L			12/31/16 11:08	1
trans-1,2-Dichloroethene	<1.0		1.0	ug/L			12/31/16 11:08	1
trans-1,3-Dichloropropene	<1.0		1.0	ug/L			12/31/16 11:08	1
1,1,1-Trichloroethane	<1.0		1.0	ug/L			12/31/16 11:08	1
1,1,2-Trichloroethane	<1.0		1.0	ug/L			12/31/16 11:08	1
Trichloroethene	<1.0		1.0	ug/L			12/31/16 11:08	1
Vinyl chloride	<1.0		1.0	ug/L			12/31/16 11:08	1
Xylenes, Total	<1.0		1.0	ug/L			12/31/16 11:08	1

	MB	MB				
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		80 - 120		12/31/16 11:08	1
Dibromofluoromethane (Surr)	105		80 - 122		12/31/16 11:08	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131		12/31/16 11:08	1
Toluene-d8 (Surr)	103		80 - 120		12/31/16 11:08	1

Lab Sample ID: LCS 680-463878/4

**Matrix: Water** 

**Analysis Batch: 463878** 

	Spi	ke LCS	LCS			%Rec.	
Analyte	Adde	ed Result	Qualifier Un	it D	%Rec	Limits	
Acetone	2	50 223	ug/	/L	89	68 - 132	
Benzene	50	.0 50.4	ug/	'L	101	80 - 120	

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Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

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Client: EHS Support, LLC Project/Site: Ashland Alterman

2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-463878/4

**Matrix: Water** 

**Analysis Batch: 463878** 

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Bromoform	50.0	49.9		ug/L		100	52 - 122	
Bromomethane	50.0	68.8		ug/L		138	43 - 146	
2-Butanone (MEK)	250	200		ug/L		80	79 - 125	
Carbon disulfide	50.0	50.1		ug/L		100	77 - 129	
Carbon tetrachloride	50.0	52.4		ug/L		105	67 - 125	
Chlorobenzene	50.0	53.4		ug/L		107	80 - 120	
Chlorodibromomethane	50.0	55.4		ug/L		111	68 - 120	
Chloroethane	50.0	57.4		ug/L		115	48 - 145	
Chloroform	50.0	46.9		ug/L		94	80 - 120	
Chloromethane	50.0	49.5		ug/L		99	76 - 149	
cis-1,2-Dichloroethene	50.0	48.2		ug/L		96	80 - 120	
cis-1,3-Dichloropropene	50.0	55.1		ug/L		110	80 - 129	
Dichlorobromomethane	50.0	51.8		ug/L		104	80 - 120	
1,1-Dichloroethane	50.0	50.2		ug/L		100	80 - 120	
1,2-Dichloroethane	50.0	45.6		ug/L		91	72 - 128	
1,1-Dichloroethene	50.0	50.9		ug/L		102	80 - 120	
1,2-Dichloropropane	50.0	50.9		ug/L		102	80 - 120	
Ethylbenzene	50.0	53.1		ug/L		106	80 - 120	
2-Hexanone	250	205		ug/L		82	80 - 131	
Methylene Chloride	50.0	51.0		ug/L		102	80 - 120	
4-Methyl-2-pentanone (MIBK)	250	214		ug/L		86	80 - 134	
Styrene	50.0	53.9		ug/L		108	80 - 126	
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	76 - 126	
Tetrachloroethene	50.0	51.3		ug/L		103	71 - 123	
Toluene	50.0	50.8		ug/L		102	80 - 120	
trans-1,2-Dichloroethene	50.0	45.9		ug/L		92	80 - 120	
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 128	
1,1,1-Trichloroethane	50.0	51.3		ug/L		103	80 - 120	
1,1,2-Trichloroethane	50.0	49.8		ug/L		100	80 - 120	
Trichloroethene	50.0	52.8		ug/L		106	80 - 120	
Vinyl chloride	50.0	49.4		ug/L		99	80 - 129	
Xylenes, Total	100	107		ug/L		107	80 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	91		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: LCSD 680-463878/6

**Matrix: Water** 

**Analysis Batch: 463878** 

				Prep Ty	pe: Tot	al/NA	
)				%Rec.		RPD	
fier	Unit	D	%Rec	Limits	RPD	Limit	

**Client Sample ID: Lab Control Sample Dup** 

Spike LCSD LCSD Added Result Qualif **Analyte** Acetone 250 232 ug/L 68 - 132 30 Benzene 50.0 50.0 ug/L 100 80 - 120 20 Bromoform 50.0 49.7 ug/L 99 52 - 122 20 Bromomethane 50.0 70.6 ug/L 141 43 - 146 20

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Client: EHS Support, LLC Project/Site: Ashland Alterman

3

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-463878/6

**Matrix: Water** 

**Analysis Batch: 463878** 

Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA

- 	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
2-Butanone (MEK)	250	199		ug/L		80	79 - 125	1	20
Carbon disulfide	50.0	48.9		ug/L		98	77 - 129	2	20
Carbon tetrachloride	50.0	50.7		ug/L		101	67 - 125	3	20
Chlorobenzene	50.0	52.9		ug/L		106	80 - 120	1	20
Chlorodibromomethane	50.0	55.7		ug/L		111	68 - 120	1	20
Chloroethane	50.0	57.0		ug/L		114	48 - 145	1	20
Chloroform	50.0	46.0		ug/L		92	80 - 120	2	20
Chloromethane	50.0	48.6		ug/L		97	76 - 149	2	30
cis-1,2-Dichloroethene	50.0	47.9		ug/L		96	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	54.9		ug/L		110	80 - 129	0	20
Dichlorobromomethane	50.0	51.9		ug/L		104	80 - 120	0	20
1,1-Dichloroethane	50.0	49.3		ug/L		99	80 - 120	2	20
1,2-Dichloroethane	50.0	45.3		ug/L		91	72 - 128	1	50
1,1-Dichloroethene	50.0	49.3		ug/L		99	80 - 120	3	20
1,2-Dichloropropane	50.0	51.9		ug/L		104	80 - 120	2	20
Ethylbenzene	50.0	52.0		ug/L		104	80 - 120	2	20
2-Hexanone	250	218		ug/L		87	80 - 131	6	20
Methylene Chloride	50.0	52.0		ug/L		104	80 - 120	2	20
4-Methyl-2-pentanone (MIBK)	250	228		ug/L		91	80 - 134	6	20
Styrene	50.0	53.5		ug/L		107	80 - 126	1	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	76 - 126	2	20
Tetrachloroethene	50.0	50.2		ug/L		100	71 - 123	2	20
Toluene	50.0	50.8		ug/L		102	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	43.9		ug/L		88	80 - 120	4	20
trans-1,3-Dichloropropene	50.0	54.3		ug/L		109	80 - 128	2	30

50.0

50.0

50.0

50.0

100

49.9

51.5

52.0

48.7

104

ug/L

ug/L

ug/L

ug/L

ug/L

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	99		80 - 120
Dibromofluoromethane (Surr)	100		80 - 122
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: MB 680-463881/10

**Matrix: Water** 

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichloroethene

Vinyl chloride

Xylenes, Total

Analysis Batch: 463881

Client Sample ID: Method Blank
Prep Type: Total/NA

80 - 120

80 - 120

80 - 120

80 - 129

80 - 120

100

103

104

97

104

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			12/31/16 11:26	1
Benzene	<1.0		1.0		ug/L			12/31/16 11:26	1
Bromoform	<1.0		1.0		ug/L			12/31/16 11:26	1
Bromomethane	<5.0		5.0		ug/L			12/31/16 11:26	1
2-Butanone (MEK)	<10		10		ug/L			12/31/16 11:26	1
Carbon disulfide	<2.0		2.0		ug/L			12/31/16 11:26	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

2

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-463881/10

**Matrix: Water** 

**Analysis Batch: 463881** 

Client Sample ID: Method Blank Prep Type: Total/NA

MB MB Result Qualifier **MDL** Unit Analyte RL D Prepared Analyzed Dil Fac Carbon tetrachloride <1.0 1.0 ug/L 12/31/16 11:26 Chlorobenzene <1.0 1.0 ug/L 12/31/16 11:26 Chlorodibromomethane <1.0 1.0 ug/L 12/31/16 11:26 Chloroethane <5.0 5.0 ug/L 12/31/16 11:26 Chloroform <10 1.0 ug/L 12/31/16 11:26 Chloromethane <1.0 1.0 ug/L 12/31/16 11:26 cis-1,2-Dichloroethene <1.0 1.0 ug/L 12/31/16 11:26 ug/L cis-1,3-Dichloropropene <1.0 1.0 12/31/16 11:26 Dichlorobromomethane <1.0 1.0 ug/L 12/31/16 11:26 <1.0 1.0 ug/L 1,1-Dichloroethane 12/31/16 11:26 1,2-Dichloroethane <1.0 1.0 ug/L 12/31/16 11:26 1,1-Dichloroethene ug/L <1.0 1.0 12/31/16 11:26 1.0 ug/L 1,2-Dichloropropane <1.0 12/31/16 11:26 Ethylbenzene <1.0 1.0 ug/L 12/31/16 11:26 2-Hexanone <10 10 ug/L 12/31/16 11:26 Methylene Chloride < 5.0 5.0 ug/L 12/31/16 11:26 4-Methyl-2-pentanone (MIBK) <10 10 ug/L 12/31/16 11:26 <1.0 1.0 ug/L Styrene 12/31/16 11:26 1,1,2,2-Tetrachloroethane <1.0 1.0 ug/L 12/31/16 11:26 Tetrachloroethene <1.0 1.0 ug/L 12/31/16 11:26 Toluene <1.0 1.0 ug/L 12/31/16 11:26 trans-1.2-Dichloroethene <1.0 1.0 ug/L 12/31/16 11:26 trans-1,3-Dichloropropene <1.0 1.0 ug/L 12/31/16 11:26 1,1,1-Trichloroethane <1.0 1.0 ug/L 12/31/16 11:26 1,1,2-Trichloroethane <1.0 1.0 ug/L 12/31/16 11:26 Trichloroethene <1.0 1.0 ug/L 12/31/16 11:26

<1.0

<1.0

	IVID	IVID					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	106		80 - 120		12/31/16 11:26	1	
Dibromofluoromethane (Surr)	102		80 - 122		12/31/16 11:26	1	
1,2-Dichloroethane-d4 (Surr)	107		73 - 131		12/31/16 11:26	1	
Toluene-d8 (Surr)	98		80 - 120		12/31/16 11:26	1	

1.0

1.0

ug/L

ug/L

Lab Sample ID: LCS 680-463881/4

**Matrix: Water** 

Vinyl chloride

Xylenes, Total

**Analysis Batch: 463881** 

Client Sample ID:	Lab Control Sample
	Prep Type: Total/NA

12/31/16 11:26

12/31/16 11:26

_	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acetone	250	248		ug/L		99	68 - 132	
Benzene	50.0	51.0		ug/L		102	80 - 120	
Bromoform	50.0	54.3		ug/L		109	52 - 122	
Bromomethane	50.0	56.4		ug/L		113	43 - 146	
2-Butanone (MEK)	250	259		ug/L		104	79 - 125	
Carbon disulfide	50.0	47.4		ug/L		95	77 - 129	
Carbon tetrachloride	50.0	49.7		ug/L		99	67 - 125	
Chlorobenzene	50.0	46.5		ug/L		93	80 - 120	

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Client: EHS Support, LLC Project/Site: Ashland Alterman

## Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-463881/4

Matrix: Water

Analysis Batch: 463881

Client Sample ID: Lab Control Sample Prep Type: Total/NA

	Spike	LCS	LCS		%Rec.	
Analyte	Added	Result	Qualifier Unit	D %Rec	Limits	
Chlorodibromomethane	50.0	56.6	ug/L	113	68 - 120	
Chloroethane	50.0	51.2	ug/L	102	48 - 145	
Chloroform	50.0	53.1	ug/L	106	80 - 120	
Chloromethane	50.0	44.8	ug/L	90	76 - 149	
cis-1,2-Dichloroethene	50.0	53.4	ug/L	107	80 - 120	
cis-1,3-Dichloropropene	50.0	55.7	ug/L	111	80 - 129	
Dichlorobromomethane	50.0	57.1	ug/L	114	80 - 120	
1,1-Dichloroethane	50.0	53.2	ug/L	106	80 - 120	
1,2-Dichloroethane	50.0	58.1	ug/L	116	72 - 128	
1,1-Dichloroethene	50.0	47.0	ug/L	94	80 - 120	
1,2-Dichloropropane	50.0	53.5	ug/L	107	80 - 120	
Ethylbenzene	50.0	48.2	ug/L	96	80 - 120	
2-Hexanone	250	295	ug/L	118	80 - 131	
Methylene Chloride	50.0	51.5	ug/L	103	80 - 120	
4-Methyl-2-pentanone (MIBK)	250	287	ug/L	115	80 - 134	
Styrene	50.0	51.4	ug/L	103	80 - 126	
1,1,2,2-Tetrachloroethane	50.0	53.4	ug/L	107	76 - 126	
Tetrachloroethene	50.0	44.7	ug/L	89	71 - 123	
Toluene	50.0	50.2	ug/L	100	80 - 120	
trans-1,2-Dichloroethene	50.0	49.3	ug/L	99	80 - 120	
trans-1,3-Dichloropropene	50.0	57.5	ug/L	115	80 - 128	
1,1,1-Trichloroethane	50.0	51.0	ug/L	102	80 - 120	
1,1,2-Trichloroethane	50.0	54.5	ug/L	109	80 - 120	
Trichloroethene	50.0	47.2	ug/L	94	80 - 120	
Vinyl chloride	50.0	44.3	ug/L	89	80 - 129	
Xylenes, Total	100	98.8	ug/L	99	80 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits			
4-Bromofluorobenzene (Surr)	98		80 - 120			
Dibromofluoromethane (Surr)	105		80 - 122			
1,2-Dichloroethane-d4 (Surr)	114		73 - 131			
Toluene-d8 (Surr)	95		80 - 120			

Lab Sample ID: LCSD 680-463881/5

**Matrix: Water** 

Analysis Batch: 463881

<b>Client Sample</b>	ID: Lab Control Sample Dup
	Prep Type: Total/NA

	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	250	222		ug/L		89	68 - 132	11	30
Benzene	50.0	50.3		ug/L		101	80 - 120	1	20
Bromoform	50.0	51.6		ug/L		103	52 - 122	5	20
Bromomethane	50.0	57.7		ug/L		115	43 - 146	2	20
2-Butanone (MEK)	250	229		ug/L		92	79 - 125	12	20
Carbon disulfide	50.0	51.0		ug/L		102	77 - 129	7	20
Carbon tetrachloride	50.0	52.8		ug/L		106	67 - 125	6	20
Chlorobenzene	50.0	47.4		ug/L		95	80 - 120	2	20
Chlorodibromomethane	50.0	52.6		ug/L		105	68 - 120	7	20
Chloroethane	50.0	53.3		ug/L		107	48 - 145	4	20

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Client: EHS Support, LLC Project/Site: Ashland Alterman

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-463881/5

**Matrix: Water** 

Analysis Batch: 463881

**Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA** 

Analysis Batch. 403001	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Chloroform	50.0	51.1		ug/L		102	80 - 120	4	20
Chloromethane	50.0	46.2		ug/L		92	76 - 149	3	30
cis-1,2-Dichloroethene	50.0	51.8		ug/L		104	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	52.8		ug/L		106	80 - 129	5	20
Dichlorobromomethane	50.0	53.5		ug/L		107	80 - 120	7	20
1,1-Dichloroethane	50.0	52.6		ug/L		105	80 - 120	1	20
1,2-Dichloroethane	50.0	54.0		ug/L		108	72 - 128	7	50
1,1-Dichloroethene	50.0	49.7		ug/L		99	80 - 120	5	20
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	4	20
Ethylbenzene	50.0	50.6		ug/L		101	80 - 120	5	20
2-Hexanone	250	261		ug/L		105	80 - 131	12	20
Methylene Chloride	50.0	48.8		ug/L		98	80 - 120	5	20
4-Methyl-2-pentanone (MIBK)	250	253		ug/L		101	80 - 134	13	20
Styrene	50.0	52.5		ug/L		105	80 - 126	2	20
1,1,2,2-Tetrachloroethane	50.0	49.6		ug/L		99	76 - 126	7	20
Tetrachloroethene	50.0	47.2		ug/L		94	71 - 123	5	20
Toluene	50.0	49.0		ug/L		98	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 128	9	30
1,1,1-Trichloroethane	50.0	53.7		ug/L		107	80 - 120	5	20
1,1,2-Trichloroethane	50.0	49.2		ug/L		98	80 - 120	10	20
Trichloroethene	50.0	48.4		ug/L		97	80 - 120	3	20
Vinyl chloride	50.0	49.3		ug/L		99	80 - 129	11	20
Xylenes, Total	100	103		ug/L		103	80 - 120	4	20

LCSD LCSD

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	97		80 - 120
Dibromofluoromethane (Surr)	101		80 - 122
1,2-Dichloroethane-d4 (Surr)	104		73 - 131
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: MB 680-463939/9

**Matrix: Water** 

Analysis Batch: 463939

**Client Sample ID: Method Blank Prep Type: Total/NA** 

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			01/03/17 09:20	1
Benzene	<1.0		1.0		ug/L			01/03/17 09:20	1
Bromoform	<1.0		1.0		ug/L			01/03/17 09:20	1
Bromomethane	<5.0		5.0		ug/L			01/03/17 09:20	1
2-Butanone (MEK)	<10		10		ug/L			01/03/17 09:20	1
Carbon disulfide	<2.0		2.0		ug/L			01/03/17 09:20	1
Carbon tetrachloride	<1.0		1.0		ug/L			01/03/17 09:20	1
Chlorobenzene	<1.0		1.0		ug/L			01/03/17 09:20	1
Chlorodibromomethane	<1.0		1.0		ug/L			01/03/17 09:20	1
Chloroethane	<5.0		5.0		ug/L			01/03/17 09:20	1
Chloroform	<1.0		1.0		ug/L			01/03/17 09:20	1
Chloromethane	<1.0		1.0		ug/L			01/03/17 09:20	1

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Client: EHS Support, LLC Project/Site: Ashland Alterman

#### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 680-463939/9

**Matrix: Water** 

**Analysis Batch: 463939** 

Client Sample ID: Method Blank **Prep Type: Total/NA** 

01/03/17 09:20

01/03/17 09:20

01/03/17 09:20

01/03/17 09:20

Prep Type: Total/NA

**Client Sample ID: Lab Control Sample** 

MB MB Result Qualifier **MDL** Unit Analyte RL Prepared Analyzed Dil Fac cis-1,2-Dichloroethene <1.0 1.0 ug/L 01/03/17 09:20 cis-1,3-Dichloropropene <1.0 1.0 ug/L 01/03/17 09:20 Dichlorobromomethane <1.0 1.0 ug/L 01/03/17 09:20 1,1-Dichloroethane <1.0 1.0 ug/L 01/03/17 09:20 1,2-Dichloroethane <10 1.0 ug/L 01/03/17 09:20 1,1-Dichloroethene <1.0 1.0 ug/L 01/03/17 09:20 1,2-Dichloropropane <1.0 1.0 ug/L 01/03/17 09:20 Ethylbenzene ug/L <1.0 1.0 01/03/17 09:20 2-Hexanone <10 10 ug/L 01/03/17 09:20 Methylene Chloride <5.0 5.0 ug/L 01/03/17 09:20 4-Methyl-2-pentanone (MIBK) <10 10 ug/L 01/03/17 09:20 Styrene ug/L 01/03/17 09:20 <1.0 1.0 1,1,2,2-Tetrachloroethane 1.0 ug/L <1.0 01/03/17 09:20 Tetrachloroethene <1.0 1.0 ug/L 01/03/17 09:20 Toluene <1.0 1.0 ug/L 01/03/17 09:20 1.0 trans-1,2-Dichloroethene <1.0 ug/L 01/03/17 09:20 trans-1,3-Dichloropropene <1.0 1.0 ug/L 01/03/17 09:20 1,1,1-Trichloroethane <1.0 1.0 ug/L 01/03/17 09:20

MR MR

<1.0

<1.0

<1.0

<1.0

	IND	IND					
Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac	
4-Bromofluorobenzene (Surr)	102		80 - 120		01/03/17 09:20	1	
Dibromofluoromethane (Surr)	100		80 - 122		01/03/17 09:20	1	
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		01/03/17 09:20	1	
Toluene-d8 (Surr)	98		80 - 120		01/03/17 09:20	1	

1.0

1.0

1.0

1.0

ug/L

ug/L

ug/L

ug/L

Lab Sample ID: LCS 680-463939/4

**Matrix: Water** 

1,1,2-Trichloroethane

Trichloroethene

Vinyl chloride

Xylenes, Total

**Analysis Batch: 463939** 

	Spike	LCS	LCS				%Rec.	
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Acetone	250	213		ug/L		85	68 - 132	
Benzene	50.0	46.9		ug/L		94	80 - 120	
Bromoform	50.0	48.4		ug/L		97	52 - 122	
Bromomethane	50.0	26.1		ug/L		52	43 - 146	
2-Butanone (MEK)	250	242		ug/L		97	79 - 125	
Carbon disulfide	50.0	48.4		ug/L		97	77 - 129	
Carbon tetrachloride	50.0	44.1		ug/L		88	67 - 125	
Chlorobenzene	50.0	47.8		ug/L		96	80 - 120	
Chlorodibromomethane	50.0	55.3		ug/L		111	68 - 120	
Chloroethane	50.0	28.7		ug/L		57	48 - 145	
Chloroform	50.0	48.4		ug/L		97	80 - 120	
Chloromethane	50.0	32.0	*	ug/L		64	76 - 149	
cis-1,2-Dichloroethene	50.0	47.8		ug/L		96	80 - 120	
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 129	

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Client: EHS Support, LLC Project/Site: Ashland Alterman

### Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 680-463939/4

**Matrix: Water** 

Analysis Batch: 463939

Client Sample ID: Lab Control Sample Prep Type: Total/NA

7 mm <b>,</b> 0.0 2 mm 100000	Spike	LCS	LCS			%Rec.	
Analyte	Added	Result	Qualifier	Unit	D %Red	Limits	
Dichlorobromomethane	50.0	54.5		ug/L	109	80 - 120	
1,1-Dichloroethane	50.0	44.1		ug/L	88	80 - 120	
1,2-Dichloroethane	50.0	55.7		ug/L	111	72 - 128	
1,1-Dichloroethene	50.0	41.7		ug/L	83	80 - 120	
1,2-Dichloropropane	50.0	47.0		ug/L	94	80 - 120	
Ethylbenzene	50.0	45.5		ug/L	91	80 - 120	
2-Hexanone	250	204		ug/L	81	80 - 131	
Methylene Chloride	50.0	52.9		ug/L	106	80 - 120	
4-Methyl-2-pentanone (MIBK)	250	203		ug/L	81	80 - 134	
Styrene	50.0	50.4		ug/L	101	80 - 126	
1,1,2,2-Tetrachloroethane	50.0	45.0		ug/L	90	76 - 126	
Tetrachloroethene	50.0	47.2		ug/L	94	71 - 123	
Toluene	50.0	49.0		ug/L	98	80 - 120	
trans-1,2-Dichloroethene	50.0	45.1		ug/L	90	80 - 120	
trans-1,3-Dichloropropene	50.0	53.8		ug/L	108	80 - 128	
1,1,1-Trichloroethane	50.0	44.4		ug/L	89	80 - 120	
1,1,2-Trichloroethane	50.0	51.3		ug/L	103	80 - 120	
Trichloroethene	50.0	47.2		ug/L	94	80 - 120	
Vinyl chloride	50.0	38.9	*	ug/L	78	80 - 129	
Xylenes, Total	100	93.0		ug/L	93	80 - 120	

LCS LCS

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	93		80 - 120
Dibromofluoromethane (Surr)	99		80 - 122
1,2-Dichloroethane-d4 (Surr)	105		73 - 131
Toluene-d8 (Surr)	87		80 - 120

Lab Sample ID: LCSD 680-463939/5

**Matrix: Water** 

**Analysis Batch: 463939** 

<b>Client Sample ID: Lab</b>	Control Sample Dup
	Prep Type: Total/NA

Analysis Batom 400000	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
Acetone	250	225		ug/L		90	68 - 132	6	30
Benzene	50.0	49.8		ug/L		100	80 - 120	6	20
Bromoform	50.0	50.7		ug/L		101	52 - 122	5	20
Bromomethane	50.0	28.2		ug/L		56	43 - 146	8	20
2-Butanone (MEK)	250	251		ug/L		100	79 - 125	4	20
Carbon disulfide	50.0	50.3		ug/L		101	77 - 129	4	20
Carbon tetrachloride	50.0	47.7		ug/L		95	67 - 125	8	20
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120	6	20
Chlorodibromomethane	50.0	58.7		ug/L		117	68 - 120	6	20
Chloroethane	50.0	38.3	*	ug/L		77	48 - 145	29	20
Chloroform	50.0	51.3		ug/L		103	80 - 120	6	20
Chloromethane	50.0	33.4	*	ug/L		67	76 - 149	4	30
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	55.3		ug/L		111	80 - 129	5	20
Dichlorobromomethane	50.0	56.7		ug/L		113	80 - 120	4	20
1,1-Dichloroethane	50.0	46.7		ug/L		93	80 - 120	6	20

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### **QC Sample Results**

Client: EHS Support, LLC Project/Site: Ashland Alterman TestAmerica Job ID: 680-133511-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 680-463939/5

**Matrix: Water** 

**Client Sample ID: Lab Control Sample Dup Prep Type: Total/NA** 

Analysis Batch: 463939									
	Spike	LCSD	LCSD				%Rec.		RPD
Analyte	Added	Result	Qualifier	Unit	D	%Rec	Limits	RPD	Limit
1,2-Dichloroethane	50.0	56.7		ug/L		113	72 - 128	2	50
1,1-Dichloroethene	50.0	46.1		ug/L		92	80 - 120	10	20
1,2-Dichloropropane	50.0	49.5		ug/L		99	80 - 120	5	20
Ethylbenzene	50.0	47.9		ug/L		96	80 - 120	5	20
2-Hexanone	250	215		ug/L		86	80 - 131	5	20
Methylene Chloride	50.0	63.3	*	ug/L		127	80 - 120	18	20
4-Methyl-2-pentanone (MIBK)	250	213		ug/L		85	80 - 134	5	20
Styrene	50.0	52.8		ug/L		106	80 - 126	5	20
1,1,2,2-Tetrachloroethane	50.0	46.5		ug/L		93	76 - 126	3	20
Tetrachloroethene	50.0	49.3		ug/L		99	71 - 123	4	20
Toluene	50.0	51.1		ug/L		102	80 - 120	4	20
trans-1,2-Dichloroethene	50.0	47.3		ug/L		95	80 - 120	5	20
trans-1,3-Dichloropropene	50.0	56.2		ug/L		112	80 - 128	4	30
1,1,1-Trichloroethane	50.0	46.7		ug/L		93	80 - 120	5	20
1,1,2-Trichloroethane	50.0	54.1		ug/L		108	80 - 120	5	20
Trichloroethene	50.0	50.1		ug/L		100	80 - 120	6	20
Vinyl chloride	50.0	41.6		ug/L		83	80 - 129	7	20
Xylenes, Total	100	98.8		ug/L		99	80 - 120	6	20

	LCSD	LCSI

Surrogate	%Recovery	Qualifier	Limits
4-Bromofluorobenzene (Surr)	98		80 - 120
Dibromofluoromethane (Surr)	106		80 - 122
1,2-Dichloroethane-d4 (Surr)	110		73 - 131
Toluene-d8 (Surr)	92		80 - 120

### **QC Association Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

#### **GC/MS VOA**

#### Analysis Batch: 463878

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-133594-2	OF-2	Total/NA	Water	8260B	
MB 680-463878/9	Method Blank	Total/NA	Water	8260B	
LCS 680-463878/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-463878/6	Lab Control Sample Dup	Total/NA	Water	8260B	

#### **Analysis Batch: 463881**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-133511-1	MW-15C	Total/NA	Water	8260B	
680-133511-2	MW-24C	Total/NA	Water	8260B	
680-133511-3	MW-16C	Total/NA	Water	8260B	
680-133511-4	MW-20C	Total/NA	Water	8260B	
680-133511-5	SS-2	Total/NA	Water	8260B	
680-133511-8	MW-19C	Total/NA	Water	8260B	
680-133511-9	MW-19D	Total/NA	Water	8260B	
680-133511-10	SS-3	Total/NA	Water	8260B	
680-133511-11	MW-19B	Total/NA	Water	8260B	
680-133511-12	Trip Blank	Total/NA	Water	8260B	
680-133594-1	SS-1	Total/NA	Water	8260B	
MB 680-463881/10	Method Blank	Total/NA	Water	8260B	
LCS 680-463881/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-463881/5	Lab Control Sample Dup	Total/NA	Water	8260B	

#### **Analysis Batch: 463939**

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-133511-9 - DL	MW-19D	Total/NA	Water	8260B	<u> </u>
MB 680-463939/9	Method Blank	Total/NA	Water	8260B	
LCS 680-463939/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-463939/5	Lab Control Sample Dup	Total/NA	Water	8260B	

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Client: EHS Support, LLC Project/Site: Ashland Alterman

Lab Sample ID: 680-133511-1

Matrix: Water

**Matrix: Water** 

**Matrix: Water** 

**Matrix: Water** 

**Client Sample ID: MW-15C** Date Collected: 12/19/16 07:55 Date Received: 12/20/16 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463881	12/31/16 15:31	JD1	TAL SAV
	Instrument	ID: CMSB								

Client Sample ID: MW-24C Lab Sample ID: 680-133511-2

Date Collected: 12/19/16 08:20 **Matrix: Water** 

Date Received: 12/20/16 11:30

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 mL	5 mL	463881	12/31/16 15:51	JD1	TAL SAV
	Instrument	ID: CMSB								

Client Sample ID: MW-16C Lab Sample ID: 680-133511-3 **Matrix: Water** 

Date Collected: 12/19/16 08:45

Date Received: 12/20/16 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	463881	12/31/16 16:12	JD1	TAL SAV
	Instrument	ID: CMSB								

Lab Sample ID: 680-133511-4 **Client Sample ID: MW-20C** Date Collected: 12/19/16 09:10

Date Received: 12/20/16 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463881	12/31/16 16:32	JD1	TAL SAV
	Instrumen	t ID: CMSB								

Client Sample ID: SS-2 Lab Sample ID: 680-133511-5

Date Collected: 12/19/16 09:20

Date Received: 12/20/16 11:30

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	463881	12/31/16 16:52	JD1	TAL SAV
	Instrumer	nt ID: CMSB								

Lab Sample ID: 680-133511-8 **Client Sample ID: MW-19C** 

Date Collected: 12/19/16 10:35 Date Received: 12/20/16 11:30

Prep Type Total/NA	Batch Type Analysis	Batch Method 8260B	Run	Dil Factor	Initial Amount 5 mL	Final Amount 5 mL	Batch Number 463881	Prepared or Analyzed 12/31/16 17:13	Analyst JD1	Lab TAL SAV
	Instrumen	t ID: CMSB								

TestAmerica Savannah

Client: EHS Support, LLC Project/Site: Ashland Alterman

**Client Sample ID: MW-19D** Lab Sample ID: 680-133511-9 Date Collected: 12/19/16 10:45

**Matrix: Water** 

Date Received: 12/20/16 11:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463881	12/31/16 17:33	JD1	TAL SAV
	Instrumen	t ID: CMSB								
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	463939	01/03/17 15:02	CEJ	TAL SAV
	Instrumen	t ID: CMSP2								

Client Sample ID: SS-3 Lab Sample ID: 680-133511-10

Date Collected: 12/19/16 11:25 **Matrix: Water** 

Date Received: 12/20/16 11:30

_	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463881	12/31/16 17:54	JD1	TAL SAV
	Instrument	ID: CMSB								

**Client Sample ID: MW-19B** Lab Sample ID: 680-133511-11

Date Collected: 12/19/16 12:40 **Matrix: Water** 

Date Received: 12/20/16 11:30

Γ	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	463881	12/31/16 18:14	JD1	TAL SAV
	Instrumer	nt ID: CMSB								

**Client Sample ID: Trip Blank** Lab Sample ID: 680-133511-12 Date Collected: 12/19/16 15:00 **Matrix: Water** 

Date Received: 12/20/16 11:30

	Batch	Batch	_	Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463881	12/31/16 11:46	JD1	TAL SAV
	Instrumer	nt ID: CMSB								

Client Sample ID: SS-1 Lab Sample ID: 680-133594-1 **Matrix: Water** 

Date Collected: 12/19/16 09:25 Date Received: 12/22/16 10:15

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	463881	12/31/16 18:35	JD1	TAL SAV
	Instrumer	t ID: CMSB								

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#### **Lab Chronicle**

Client: EHS Support, LLC Project/Site: Ashland Alterman TestAmerica Job ID: 680-133511-1

Lab Sample ID: 680-133594-2

**Matrix: Water** 

Date Collected: 12/19/16 09:30 Date Received: 12/22/16 10:15

Client Sample ID: OF-2

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Type	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	463878	12/31/16 16:58	JD1	TAL SAV
	Instrument	ID: CMSA2								

#### **Laboratory References:**

TAL SAV = TestAmerica Savannah, 5102 LaRoche Avenue, Savannah, GA 31404, TEL (912)354-7858

ToctAmorico	DOILO			5102 LaRoche Avenue Savannah, GA 31404	/enue Phone: (912) 354-7858 404 Fax: (912) 352-0165	) 354-7858 52-0165
THE LEADER IN ENVIRONMENTAL TESTING	ONMENTAL TESTING			Alternate Laborat	Alternate Laboratory Name/Location Phone: Fax:	
Ashland Atterman	Man Co 1849	PROJECT LOCATION (STATE)	MATRIX		REQUIRED ANALYSIS	PAGE OF
F	P.O. NUMBER	CONTRACT NO.				STANDARD REPORT DELIVERY
CLIENT (SITE) PM	.,,	CLIENT FAX				DATE DUE
	CLIENT E-MAIL  MIChelle	Staynoute Support contra	0	, - 57) s '110) al		EXPEDITED REPORT DELIVERY (SURCHARGE)
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OMPANY CONTRACTING THIS	WORK (if applicable)		N) SNO:	HCC	ESERVATIVE	PER SHIPMENT:
SAMPLE DATE TIME	SAMPLE IDENTIFICATION		SOLIE SOLIE		NUMBER OF CONTAINERS SUBMITTED	REMARKS
12/19/14 o155	MW-15C		15	*		
10820 JUNIO	Mw-24C		*5	×		Trio Blank to
relight ce45	mw-lec		G X	×		
12/19/16 01/10	MW-75C		S X	×		7
reliable of 2c	7-55		X	×		Three conteniers
12/19/16 2725	1-55		X	X		per Sample.
12/19/16 093c	7- 40		X	*		
1 1035 place	MUTAC		×	<b>×</b>		
12 /14/16 1045	mw-19D		44	×		
RIMIL WAS	58-3		×9	×		
12/19/16 1240	MW-19B		e x	×		
allalle 1500	Tro Blank		X	×		
RELINQUIGHED BY (SIGNATURE)	DATE TIME	RELINQUISHED BY: (SIGNATURE)	VATURE)	DATE		DATE TIME
RECEIVER BY: AIGNATURE)	DATE	RECEIVED BY: (SIGNATURE	(3)	DATE	680-133511 Chain of Custody	DATE TIME
			LABORATORY USE ONLY	JSE ONLY		
RECEIVED FOR LABORATORY BY (SIGNATURE)	DATE	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS	-
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Serial Number 114605

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Toct A morrio	ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD	N OF CUSTODY RECO		TestAmerica Savannah 5102 LaRoche Avenue Savannah, GA 31404	avannah Avenue 31404	Website Phone: Fax: (9	Website: www.testamericainc.com Phone: (912) 354-7858 Fax: (912) 352-0165	ericainc.com	
THE LEADER IN ENVIRONMENTAL TESTING	SITAL TESTING		10	› Alternate Labor	Alternate Laboratory Name/Location	tion Phone: Fax:			
PROJECT REFERENCE	PROJECT NO.	PROJECT LOCATION N	MATRIX		REQUIRED ANALYSIS	ANALYSIS	PAGE		OF
NA :	P.O.	CONTRACT NO.	(				STAND	STANDARD REPORT DELIVERY	X
CLIENT (SITE) PM	CLIENT PHONE	CLIENT FAX	DLVENT	2775			DA	DATE DUE	
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SAMPLE DATE TIME	SAMPLE IDENTIFICATION	COMPC	SOLID C ANON		NUMBER OF CONTAINERS SUBMITTED	INERS SUBMITTED		REMARKS	
2000	1-55	2	9	2					
0930	SS- 0F-2	SIX		77					
i of 39									
9									
	O Clestody								
680-133594	680-133594 Chair or comm.								
RELINOUISHED BY. (SIGNATURE)	DATE TIME	RELINQUISHED BY: (SIGNATURE)		DATE	TIME	HELINQUISHED BY: (SIGNATURE)		DATE	TIME
RECEIVED &Y. (#GNATURE)	DATE TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME	RECEIVED BY: (SIGNATURE)		DATE	TIME
1/5		LABOF	LABORATORY USE ONLY	ONLY					
2010 SIGNATURE)	DATE TIME	CUSTODY INTACT CUSTOMER SEAL NO CONTRACT CUSTOMER CONTRACT CUSTOMER SEAL SEAL SEAL SEAL CONTRACT CONTR	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS	REMARKS - A			
	2					21/2		TALS	TAL8240-680 (1008)

Serial Number 114604

Client: EHS Support, LLC Job Number: 680-133511-1

Login Number: 133511 List Source: TestAmerica Savannah

List Number: 1

Creator: Kicklighter, Marilyn D

oroutor. Mornighter, marriyir b		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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.	False	two samples on COC not received 12/20/16, due into lab on 12/21/16
Samples are received within Holding Time (excluding tests with immediate HTs)	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	

TestAmerica Savannah

Client: EHS Support, LLC Job Number: 680-133511-1

Login Number: 133594 List Source: TestAmerica Savannah

List Number: 1

Creator: Jackson, Victor L

Creator. Jackson, victor L		
Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td></td>	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 (excluding tests with immediate HTs)	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	

TestAmerica Savannah

### **Certification Summary**

Client: EHS Support, LLC Project/Site: Ashland Alterman

TestAmerica Job ID: 680-133511-1

a

**Laboratory: TestAmerica Savannah** 

The certifications listed below are applicable to this report.

Authority	Program	<b>EPA Region</b>	Certification ID	<b>Expiration Date</b>
Georgia	State Program	4	803	06-30-17

Δ

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### APPENDIX D

Monitoring Well Abandonment Records



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For Ne	ew Construction U	Inder Repair/Modific	cation <u>C</u> C	ompleted 🗶 Ab	andoned Wells 1	12/5/2016	
Property	y Owner Informati	on					
Property Ov	wner Name: Tara Retail H	loldings LLC (completer	d by EHS Sup	pport, LLC) Phone	e: (412) 807-1494	Email: Mich	elle.Stayrook@ehs-Support.
Company /	Farm / Municipality / Wat	er System Name: Ash	nland, LLC	/ Tara Shopping	g Center (Former I	Ory Cleane	r Site)
Address:	8564 Tara Boulevar	d, Jonesboro, Clay	ton County	, Georgia 3023	86		
	(No. and			(City)	(St	ate)	(Zip)
Well Co	ntractor Informati	on					
Onsite Well	Driller Name: Edward	Wayman		Licens	se No. GA 627 WD	Phone: (7	70) 868-5407
Well Contra	actor Company Name: Ge	oLabs, Inc					
Address: F	O Box 1169, Dracul	a, GA 30019					
	(No. and			(City)		ate)	(Zip)
Drilling und	ler direction of Professiona	al Geologist or Engineer I	Name: Jona	athan Patrick W	addell	License No	. PE037262
Well Inf	ormation						
	Prinking Municipal Municipal						
	al Drinking    Geotherm ation or Permit Number:		Injection	□ Other Well Type Water System ID: _	2:		
	Concurrence Letter On-site			Water System Well N	Number:	-	
County who	ere well is located: Clay	ton	Latitude	e: N033°31'14.642	Longitude: W084°21	'43.441" Eleva	tion: 898.816
Well Co	nstruction Descrip	tion					
	lling Information			Rotary	☐ Percussion		Bored
	of well: 25	ft. Below La	and Surface	☐ Jetted	☐ Auger		Cable Tool
Static wate	r level: 23.64	ft. BLS (ft E	STOC)	☐ Horizontal	☐ Hand-Drive	n 🗆	Hydraulic Pt.
Date static	water level measured: 6/			Date Drilled:	<b>'</b>	<u> </u>	
	le Diameter			Grouting (☑	as applicable)		
Size	in., from	0 ft. to	ft.	Method: Casing	g 🗷 Tremie 🗌 Packer	· 🔲 Halliburto	n 🗌 Under Pressure
Size	in., from	ft. to	ft.	Type: X Bentonit	e 🗌 Neat Cement 🗌 (	Other:	
Size	in., from	ft. to	ft.	▼ Present From	0 ft. to 25 ft.	. From	ft. to ft.
Casing F	Record (☑ as appli	cable)		Permanent P	ump Data (☑ as	applicable	<del>:</del> )
Primary:	🗌 Black Steel 🗌 Galvaniz	zed 🗌 Stainless		Pump Type:			
	🗷 PVC 🗌 Not Cased 🔲	Other:		Pump Diameter:	0	utlet size:	
Secondary:	☐ Telescope ☐ Liner ☐	] Surface Casing		Motor HP:	M	otor RPM:	
Wall Thickn	ness in.			Pump Capacity:	GPM To	otal Dynamic H	Head: ft.
Weight per	foot	SDR		Pump Set at:	ft. Pu	ump Disinfecte	ed: 🗌 Yes 🔲 No
Size: <u>2</u>	in., from	0 ft. to <u>15</u>	ft.	Meter Installed:		eter Size & Ra	
Size:	in., from	ft. to	ft.	Casing Vent:	res □ No Sa	ample Tap: 🗌	] Yes 🗌 No
Size:	in., from	ft. to	ft.	Air Line:  Yes	☐ No Depth ft.	Diameter _	in.
Size:	in., from	ft. to	ft.		k valve installed: \( \square\) Yes		
	reen (if installed)			Test Pump D	ata (⊠ as applica		
, ,	rial Slotted PVC			Date Tested:	St	tatic water leve	el: ft. BLS
Size: 2	in., from 15	ft. to <u>25</u>	ft.	Test Pump Rated:		_ HP	
Size:	in., from	ft. to	ft.	Total Continuous I			
Size:	in., from	ft. to	ft.		ized: Yes No		
Size:	in., from	ft. to	ft.	Hours before Stab		ustained Yield:	
Gravel Pack		ft. to	ft.	Total Drawdown:		pecific Capacity	y: GPM/ft.
Gravel Pack		ft. to	ft.	Pumping Water Le			
Gravel Picir		ft. to	ft.	Number of Minute		Iall Diair-fr	
Gravei Disii	nfected: Yes No			Well Developed:	∟ires ∟ino W	en disintected	l: 🗌 Yes 🗌 No

The said	THE STATE OF	
-		A CONTRACTOR OF THE PARTY OF TH
The Real Property lies	0 1	from Talk and
	1	Description of the Party of the
S III TO THE		
The second second	-	STATE OF THE PARTY OF

Well Application or Permit Number:	

<b>Construction Techniques ( ☑ if done)</b>
☐ Drill cuttings, materials removed ☐ Well disinfected
☐ Casing, liner pipe joints watertight ☐ Sanitary seal
☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped
☐ Gravel pack washed, disinfected
☐ Casing material new or meets national standards
☐ Well screen – optimal development, low head loss & clog

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water
from	to	Type Material Effective	Remarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Date
Liconac No
License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

	ew Construction Un y Owner Information		ation 🗌	Completed	Abando	ned Wells 1	2/5/201	16	
Property Owner Name: Tara Retail Holdings LLC (completed by EHS Support, LLC) Phone: (412) 807-1494 Email: Michelle.Stayrook@ehs-Support.									
Company / Farm / Municipality / Water System Name: Ashland, LLC / Tara Shopping Center (Former Dry Cleaner Site)									
	8564 Tara Boulevard				• • •	(, , , , , , , , , , , , , , , , , , ,	, , , , ,		
71441 C551	(No. and S	• •	tori Couri	(City)	30230	(Sta	ate)	(Ziŗ	n)
Well Co	ntractor Informatio	,		(City)		(500	ite)	(21)	,
Onsite Well Driller Name: Edward Wayman					License No.	<b>GA 62</b> 7 WD	Phone:	: (770) 868-54	07
Well Contra	actor Company Name: Ge	oLabs, Inc							
Address: F	PO Box 1169, Dracula	a, GA 30019							
	(No. and S	Street)		(City)		(Sta	ite)	(Zip	)
Drilling und	der direction of Professional	Geologist or Engineer N	Name: Jo	nathan Patr	ick Wadde	<u>                                     </u>	License	e No. PE03726	2
Well Inf	formation								
Public D	Drinking 🗌 Municipal 🔲 I	ndustrial 🗌 Agricultura	al / Irrigatio	n Well 🗌 Bor	e/core hole	Dewatering			
☐ Individu	ual Drinking 🔲 Geotherma ation or Permit Number: 🚹	Test / Monitoring		n 🔲 Other We					
	Concurrence Letter On-site	VIVV-IC		: Water System : Water System		r:			
	ere well is located: Clayt	on					43.438" <sub>E</sub>	Elevation: 899.0	1
	nstruction Descript				==:.9				
	illing Information	1011		☐ Rotary		☐ Percussion		Bored	
	n of well: 98	ft. Below La	nd Surface	☐ Rotary		Auger		☐ Cable Tool	
	er level: 36.74	ft. BLS(ft E		Horizon	tal	☐ Hand-Driver	1	☐ Hydraulic Pt.	
	water level measured: 6/2		7100)	Date Drill		□ Hana Diver			
	le Diameter	20/2010			g (⊠ as ap	pplicable)			
Size	in., from	0 ft. to	ft.				☐ Hallib	urton 🗌 Under Pr	essure
Size	in., from	ft. to	ft.			leat Cement 🗌 C			
Size	in., from	ft. to	ft.	▼ Present		ft. to 98 ft.		ft. to	ft.
Casing I	Record (☑ as applic	able)				Data (☑ as		ıble)	
Primary:	☐ Black Steel ☐ Galvanize	ed Stainless		Pump Type	:	_			
	▼ PVC □ Not Cased □ 0	Other:	_	Pump Diam	neter:	Oι	ıtlet size:		
Secondary:	:   Telescope  Liner	Surface Casing		Motor HP:		Mo	tor RPM:		
Wall Thickr	ness in.			Pump Capa	ncity:	_ GPM To	tal Dynar	nic Head: f	t.
Weight per	foot	SDR		Pump Set a	at:	ft. Pu	mp Disint	fected: 🗌 Yes 🛛	No
Size: <u>2</u>	_ in., from	0 ft. to <u>83</u>	ft.	Meter Insta	alled:   Yes	□ No Me	eter Size 8	& Rating:	
Size:	•	ft. to	ft.		t: Yes 🗆			: Yes No	
Size:		ft. to	ft.	-	Yes No	•		er in.	
Size:		ft. to	ft.			installed: Yes			
	reen (if installed)					<b>☑</b> as applica			DI C
	rial Slotted PVC	ft. to 98		Date Teste			atic water	level: ft.	BLS
Size: 2	in., from <u>83</u>		ft.	Test Pump	'	-	HP		
Size:	in., from	ft. to	ft.		nuous Hours				
Size:		ft. to	ft.			Yes No	ctained V	'ield: GPM	
Size: Gravel Pack	in., from	ft. to	ft.	Total Draw	re Stabilization		stained Y ecific Car		/ft
Gravel Pack		ft. to ft. to	ft.		down: /ater Level:	ft. Sp	eciiic Cdf	Jacity GPM	/16.
Gravel Pack		ft. to	ft.		Minutes to Re				
	nfected: Yes No	π. ω	11.	-	oped:  Yes		all Dicinfo	ected: Yes	l No
GIAVEI DISII	111CCCCU 1C3 1NO			Mell Devel	ppcu. 🗀 168		בוו היסוווופ	.c.cu. 🗀 165 🗀	טוו נ

No. of the last	0 0	THE STREET
	0 0	Trans. A Referen
	1 6	Finanti Bitting
	Total State	

Well Application or Permit Number:	
• • • • • • • • • • • • • • • • • • • •	· <u> </u>

Well Construction Description (continued)						
Protection from Pollutants (☑ if done)	<b>Construction Techniques ( ☑ if done)</b>					
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected					
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal					
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)					
☐ > 100 ft. animal enclosure ☐ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped					
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected					
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards					
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog					
<ul> <li>⇒ 150 ft. seep pit  ⇒ 100 ft. septic drain field</li> <li>⇒ 100 ft. animal enclosure  protected from runoff</li> <li>casing &gt; 2 ft. above floodplain or highest known flood</li> <li>Water-bearing formations sealed if likely to be polluted</li> </ul>	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic) ☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped ☐ Gravel pack washed, disinfected ☐ Casing material new or meets national standards					

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water
from	to	Type Material Effective	Remarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

12/8/16	
	Date
GA 627 WD	
	License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For New	Construction U	nder Repair/Modific	ation	า ∐Co	ompleted	<b>X</b> Abando	ned Wells 1	2/5/201	6	
Property	Owner Informati	on								
Property Owner Name: Tara Retail Holdings LLC (completed by EHS Support, LLC) Phone: (412) 807-1494 Email: Michelle.Stayrook@ehs-Support						@ehs-Support.co				
Company / Fa	arm / Municipality / Wate	er System Name: Ash	land	I, LLC	/ Tara Sho	opping Cer	nter (Former D	ry Clea	ner Site)	
Address: 8	564 Tara Boulevar	d, Jonesboro, Clayt	ton C	County	, Georgia	30236				
	(No. and S	Street)			(City)		(Sta	ite)		(Zip)
Well Cont	ractor Information	on								
Onsite Well Driller Name: Edward Wayman					License No.	GA 627 WD	Phone:	(770) 868	-5407	
Well Contract	or Company Name: Ge	oLabs, Inc								
Address: PC	Box 1169, Dracul	a, GA 30019								
	(No. and S	Street)			(City)		(Sta	ite)		(Zip)
Drilling under	direction of Professiona	ıl Geologist or Engineer N	Name:	: <u></u>				License	e No.	
Permit/Concurrence Letter On-site Public				njection Public V Public V	☐ Other We Vater System Vater System	ell Type: 1 ID: 1 Well Number		45.017" <sub>E</sub>	Elevation: 89	2.54
	struction Descript				-			-		
	ing Information	HOH			Rotary		☐ Percussion		Bored	
Total depth o		ft. Below La	nd Sı	ırface	☐ Rotary		Auger		☐ Cable To	ol
Static water le		ft. BLS ft B			☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.					
	ater level measured: 6/2		,100	رر	Date Drille		☐ Haliu-Dilvei		riyuraulic	, FL,
	Diameter	29/2013				g (☑ as ap	nlicable)			
Size	in., from	0 ft. to		ft.			remie Packer	☐ Hallib	urton 🗆 Unde	er Pressure
Size	in., from	ft. to		ft.			leat Cement   O			21 TTC55GTC
Size	in., from	ft. to		ft.	Present		ft. to 55 ft.		ft. to	ft.
	ecord (🗹 as applic			16.			Data (☑ as			10.
	Black Steel Galvaniz				Pump Type	•	Data (El as i	иррпса		
	PVC Not Cased				Pump Diam			tlet size:		
	Telescope Liner		_		Motor HP:			tor RPM:		
Wall Thicknes		Januce casing			Pump Capa	city:			nic Head:	ft.
Weight per fo		SDR			Pump Set a				ected: Yes	
Size: 2	in., from	0 ft. to 45		ft.		illed: \( \square\) Yes		ter Size 8		I INO
Size:	in., from	ft. to		ft.		t:			: Yes	No
Size:	in., from	ft. to		ft.				Diamet		110
Size:	in., from	ft. to		ft.			installed: Yes		<u> </u>	
	en (if installed)						☑ as applica			
	Slotted PVC				Date Tested			atic water	level:	ft. BLS
Size: 2	in., from 45	ft. to 55		ft.	Test Pump			HP		
Size:	in., from	ft. to		ft.		nuous Hours 1				
Size:	in., from	ft. to		ft.			Yes No			
Size:	in., from	ft. to		ft.		re Stabilization		stained Y	ield: GF	PM
Gravel Pack	from	ft. to		ft.		down:				GPM/ft.
Gravel Pack	from	ft. to		ft.		ater Level:			,	·
Gravel Pack	from	ft. to		ft.		Minutes to Re				
Gravel Disinfe	ected: Yes No				Well Develo	ped:  Yes	□ No We	ell Disinfe	cted:	☐ No

	PRODUCTION COMMANDED ** - UNITED TO THE PARTY OF THE PART
0 11	Transition in

Well Application or Permit Number:	

Well Construction Description (continued)						
<b>Construction Techniques ( ☑ if done)</b>						
☐ Drill cuttings, materials removed ☐ Well disinfected						
☐ Casing, liner pipe joints watertight ☐ Sanitary seal						
☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)						
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped						
☐ Gravel pack washed, disinfected						
☐ Casing material new or meets national standards						
☐ Well screen – optimal development, low head loss & clog						

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water	
from	to	Type Material Effective	Remarks	Bearing Zones	
0					

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For New	Construction U	nder Repair/Modific	ation		ompleted	<b>X</b> Abando	ned Wells 1	2/5/20	16	
<b>Property</b>	Owner Informati	on								
Property Owner Name: Lumsden Properties LLC (completed by EHS Support, LLC)						Phone: (41	2) 807-1494	Email:	Michelle.Stayrook@	ehs-Support.c
Company / Farm / Municipality / Water System Name: Ashland, LLC / Tara Shopping Center (Former Dry Cleaner Site)										
Address: 866	60 Tara Blvd, Jone	sboro, Clayton Cou	inty,	Georg	jia 30236					
_	(No. and S				(City)		(Sta	ate)	(	Zip)
Well Cont	ractor Information	on						_		
Onsite Well D	riller Name: Edward \	Wayman				License No.	<b>GA 627</b> WD	Phone	: (770) 868-	5407
Well Contract	or Company Name: Ge	oLabs, Inc								
Address: PO	Box 1169, Dracula	a, GA 30019								
	(No. and S				(City)			ate)	(	Zip)
Drilling under	direction of Professiona	Il Geologist or Engineer N	lame:	Jona	athan Patr	ick Wadde	ell	Licens	e No. PE0372	262
Permit/Concurrence Letter On-site Public Public					☐ Other We Vater System Vater System	ell Type: i ID: i Well Numbe		45.792" <sub> </sub>	Elevation: 884	.67_
	struction Descript									
	ing Information	-1011			☐ Rotary		☐ Percussion		Bored	
Total depth of		ft. Below La	nd Sur	rface	☐ Jetted		Auger		☐ Cable Tool	
Static water le		ft. BLS ft B			☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.					
	ater level measured: 6/2		100			ed: 4/28/20		<u>'</u>	riyuradiic	ι.
	Diameter	23/2013					pplicable)			
Size	in., from	0 ft. to	-	ft.			Tremie  Packer	☐ Hallib	urton 🗆 Under	Pressure
Size	in., from	ft. to		ft.			Neat Cement C			11000010
Size	in., from	ft. to		ft.	X Present		ft. to 60 ft.		ft. to	ft.
	ecord (☑ as applic			101			Data (☑ as			16.
	Black Steel Galvaniz				Pump Type		Data (E as	аррпсс	ibic)	
•	PVC Not Cased				Pump Diam			ıtlet size:		
	Telescope Liner				Motor HP:			otor RPM:		
Wall Thicknes		- Carrace casing			Pump Capa	city.			mic Head:	ft.
Weight per fo		SDR			Pump Set a				fected: Yes	
Size: 2	in., from	0 ft. to <u>50</u>		ft.		lled:  Yes			& Rating:	
Size:	in., from	ft. to		ft.		t: Yes			o: Yes 1	Vo
Size:	in., from	ft. to		ft.		Yes No		Diamet		
Size:	in., from	ft. to		ft.			installed: Yes			
	en (if installed)						☑ as applica			
	Slotted PVC				Date Tested		•	atic wate	r level: f	t. BLS
Size: 2	in., from 50	ft. to 60		ft.	Test Pump	Rated:	GPM	HP		
Size:	in., from	ft. to		ft.	Total Contin	nuous Hours	Tested:			
Size:	in., from	ft. to		ft.			☐ Yes ☐ No			
Size:	in., from	ft. to		ft.	Hours before	re Stabilizatio	n: Su	stained Y	'ield: GPI	М
Gravel Pack	from	ft. to		ft.	Total Draw	down:	ft. Sp	ecific Cap	oacity: G	PM/ft.
Gravel Pack	from	ft. to		ft.	Pumping W	ater Level: _	ft.			
Gravel Pack	from	ft. to		ft.		Minutes to Re	ecover:			
Gravel Disinfe	ected: Yes No				Well Develo	ped: Yes	s ☐ No W	ell Disinfe	ected: Yes	☐ No

No. of the last	0 0	THE STREET
	0 0	Trans. A Referen
	1 6	Finanti Bitting
	Total State	

Well Application or Permit Number:	
• • • • • • • • • • • • • • • • • • • •	· <u> </u>

Well Construction Description (continued)						
Protection from Pollutants (☑ if done)	<b>Construction Techniques ( ☑ if done)</b>					
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected					
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal					
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)					
$\square$ > 100 ft. animal enclosure $\square$ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped					
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected					
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards					
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog					
<ul> <li>⇒ 150 ft. seep pit  ⇒ 100 ft. septic drain field</li> <li>⇒ 100 ft. animal enclosure  protected from runoff</li> <li>casing &gt; 2 ft. above floodplain or highest known flood</li> <li>Water-bearing formations sealed if likely to be polluted</li> </ul>	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic) ☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped ☐ Gravel pack washed, disinfected ☐ Casing material new or meets national standards					

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water	
from	to	Type Material Effective	Remarks	Bearing Zones	
0					

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
	GA 627 WD	
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

	ew Construction Un y Owner Information	•	ation 🔲 C	Completed <b>X</b>	Abandon	ed Wells 1	2/5/20	16
	wner Name: Sonu Enterpr	rt, LLC) Pho	ne: <mark>(412</mark>	2) 807-1494	Email:	Michelle.Stayrook@ehs-Support.		
Company / Farm / Municipality / Water System Name: Ashland, LLC / Tara Shopping Center (Former Dry Cleaner Site)								
Address: 8664 Tara Boulevard, Jonesboro, Clayton County, Georgia 30236								
	(No. and S		•	(City)		(Sta	ate)	(Zip)
Well Co	ntractor Informatio	n						
Onsite Well	I Driller Name: Edward V	Vayman		Lice	ense No. (	GA 627 WD	Phone	: (770) 868-5407
Well Contra	actor Company Name: Ge	oLabs, Inc						
Address: F	PO Box 1169, Dracula	a, GA 30019						
	(No. and S	Street)		(City)			ate)	(Zip)
Drilling und	der direction of Professional	Geologist or Engineer Na	<sub>ame:</sub> Jon	athan Patrick \	Waddell		Licens	e No. PE037262
Well Inf	formation							
☐ Public D	Orinking 🗌 Municipal 🔲 I					Dewatering		
☐ Individu	ual Drinking 🔲 Geotherma ation or Permit Number: 👖	I 🔀 Test / Monitoring [			pe:			
	Concurrence Letter On-site			Water System ID: Water System Wel	I Number:			
	ere well is located: Clayt						47.684"	Elevation: 881.41
	nstruction Descript		240.040					
	illing Information	IOH		Rotary		☐ Percussion		☐ Bored
	n of well: 25	ft. Below Lan	nd Surface	☐ Rotary		Auger		☐ Cable Tool
	er level: 14.62	ft. BLS ft B		Horizontal		☐ Hand-Driver	<u> </u>	☐ Hydraulic Pt.
	water level measured: 11		100	Date Drilled: {	5/2/2006		<u> </u>	☐ Hydradiic Ft.
	le Diameter	713/2010		Grouting (				
Size	in., from	0 ft. to	ft.				☐ Hallih	urton Under Pressure
Size	in., from	ft. to	ft.	Type: X Benton				diton 🗀 onder rressure
Size	in., from	ft. to	ft.	☐ Present From		ft. to 25 ft.		ft. to ft.
	Record (☑ as applic			Permanent				
Primary:	☐ Black Steel ☐ Galvanize			Pump Type:	<u> </u>	(		
	▼ PVC  Not Cased  ()			Pump Diameter:		Oı	ıtlet size:	
	Telescope Liner		_	Motor HP:		='	otor RPM:	
Wall Thickr	·			Pump Capacity:		GPM To	tal Dynai	mic Head:ft.
Weight per	foot	SDR		Pump Set at:		ft. Pu	ımp Disin	fected: Yes No
Size: 2	_ in., from	0 ft. to <u>15</u>	ft.	Meter Installed:	☐ Yes [	☐ No Me	eter Size	& Rating:
Size:	in., from	ft. to	ft.	Casing Vent:	] Yes □	No Sa	mple Tap	: Yes No
Size:	in., from	ft. to	ft.	Air Line: Yes	s 🗌 No I	Depth ft.	Diamet	ter in.
Size:	in., from	ft. to	ft.	Chemigation che	eck valve i	nstalled: 🗌 Yes	i □ No	
	reen (if installed)			<b>Test Pump</b>	Data (⊡	as applica	ble)	
	rial Slotted PVC			Date Tested:		St	atic wate	r level: ft. BLS
Size: 2	in., from 15	ft. to 25	ft.	Test Pump Rate	d: (	GPM	HP	
Size:	in., from	ft. to	ft.	Total Continuou	s Hours Te	ested:		
Size:	in., from	ft. to	ft.	Water Level Sta	bilized:	Yes No		
Size:	in., from	ft. to	ft.	Hours before Sta		: Sı	ıstained Y	'ield: GPM
Gravel Pack	k from	ft. to	ft.	Total Drawdown	ı: ft	:. Sp	ecific Cap	pacity: GPM/ft.
Gravel Pack	k from	ft. to	ft.	Pumping Water	Level:	ft.		
Gravel Pack	k from	ft. to	ft.	Number of Minu				
Gravel Disinfected: ☐ Yes ☐ No				Well Developed:	☐ Yes	□ No W	ell Disinfe	ected: Yes No

Well Application or Permit Number:	

Well Construction Description (continued)						
Protection from Pollutants (☑ if done)	Construction Techniques (☑ if done)					
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected					
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal					
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)					
☐ > 100 ft. animal enclosure ☐ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped					
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected					
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards					
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog					

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water		
from	to	Type Material Encountered	Kemarks	Bearing Zones		
0						

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joz Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334 PHONE: (404) 656-4713

# Well Completion Data Form

For New Construction Under Repair	r/Modification C	Completed 🗷 Abando	oned Wells 1	2/5/2016	<u> </u>
Property Owner Information					
Property Owner Name: Sonu Enterprises Inc. (con	npleted by EHS Suppor	rt, LLC) Phone: (4	12) 807-1494	Email: Mi	ichelle.Stayrook@ehs-Support.cor
Company / Farm / Municipality / Water System Nan	ne: Ashland, LLC	/ Tara Shopping Ce	nter (Former D	ry Clean	er Site)
Address: 8664 Tara Boulevard, Jonesbo	ro, Clayton County				
(No. and Street)		(City)	(Sta	ite)	(Zip)
Well Contractor Information					
Onsite Well Driller Name: Edward Wayman	License No	. GA 627 WD	Phone: (	770) 868-5407	
Well Contractor Company Name: GeoLabs, Inc					
Address: PO Box 1169, Dracula, GA 300	19	(2)			
(No. and Street)	la a	(City)	(Sta	T '	(Zip)
Drilling under direction of Professional Geologist or	Engineer Name: Jon	athan Patrick Wadd	ell	License N	No. PE037262
Well Information  ☐ Public Drinking ☐ Municipal ☐ Industrial ☐ Individual Drinking ☐ Geothermal ▼ Test / M  Well Application or Permit Number: MW-6B ☐ Permit/Concurrence Letter On-site  County where well is located: Clayton		er:	47.679"_Ele	vation: <u>881.54</u>	
Well Construction Description					
Well Drilling Information		☐ Rotary	☐ Percussion	Ī	Bored
	. Below Land Surface	☐ Jetted	☐ Auger		Cable Tool
•	:. BLS (ft BTOC)	Horizontal			
Date static water level measured: 11/15/2016	DL3 (1 D 1 O C)	Date Drilled: 5/2/20		ı	Tiyuraulic Ft.
Drill Hole Diameter		Grouting (☑ as a			
Size in., from 0 ft. to	ft.	Method: Casing	· · · · · · · · · · · · · · · · · · ·	□ Hallibur	ton D Under Pressure
Size in., from ft. to		Type: X Bentonite			ton onder riessure
Size in., from ft. to		Present From 0	ft. to 67 ft.		ft. to ft.
Casing Record (☑ as applicable)	11.	Permanent Pum			
Primary: Black Steel Galvanized Stainles		Pump Type:	Data (M as a	аррисав	ie)
✓ PVC Not Cased Other:	55			tlot cizo.	
Secondary: Telescope Liner Surface Casir		Pump Diameter: Motor HP:		tlet size: otor RPM:	
	ig				Head: ft.
		Pump Capacity:	· · · · · · · · · · · · · · · · · · ·	tal Dynamic	
Weight per foot         SDR           Size: 2 in., from 0 ft. to	57 #	Pump Set at: Meter Installed: \( \square\) Yes		ter Size & I	cted: Yes No
Size: in., from ft. to		Casing Vent: Yes			Yes No
	_	Air Line: Yes No		Diameter	
Size:		Chemigation check valv			in.
Well Screen (if installed)		Test Pump Data			
Type material Slotted PVC		Date Tested:		atic water le	evel: ft. BLS
Size: 2 in., from 57 ft. to	67 <sub>ft.</sub>	Test Pump Rated:		HP	Tt. DES
Size: in., from ft. to		Total Continuous Hours		• • •	
Size: in., from ft. to		Water Level Stabilized:			
Size: in., from ft. to	<del></del>	Hours before Stabilization		stained Yiel	ld: GPM
Gravel Pack from ft. to		Total Drawdown:		ecific Capac	
Gravel Pack from ft. to		Pumping Water Level:			,
Gravel Pack from ft. to		Number of Minutes to R			
Gravel Disinfected: Yes No		Well Developed: ☐ Ye		ell Disinfect	ed: Yes No

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	0 11	Time The	ggi
	1	January William	W

Well Application or Permit Number:	

Well Construction Description (continued)					
<b>Construction Techniques ( ☑ if done)</b>					
☐ Drill cuttings, materials removed ☐ Well disinfected					
☐ Casing, liner pipe joints watertight ☐ Sanitary seal					
☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)					
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped					
☐ Gravel pack washed, disinfected					
☐ Casing material new or meets national standards					
☐ Well screen – optimal development, low head loss & clog					

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water		
from	to	Type Material Effective	Remarks	Bearing Zones		
0						

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For New Co	or New Construction Under Repair/Modification Completed XAbandoned Wells 12/5/2016								
Property Ow	Property Owner Information								
Property Owner Name: Tara Retail Holdings LLC (completed by EHS Sup				port, LLC)	Phone: (41	2) 807-1494	Email: (M	ichelle.Stayrook	@ehs-Support.
Company / Farm	/ Municipality / Wat	ter System Name: Ashlar	nd, LLC	/ Tara Sho	pping Cer	iter (Former D	ry Clean	er Site)	
Address: 8564	l Tara Boulevar	rd, Jonesboro, Clayton	County	, Georgia	30236				
	(No. and	,		(City)		(Sta	te)		(Zip)
Well Contrac	ctor Informati	on					T		
Onsite Well Driller Name: Edward Wayman					License No.	GA 627 WD	Phone: (	770) 868-	5407
Well Contractor Company Name: GeoLabs, Inc									
Address: PO Bo	ox 1169, Dracu	la, GA 30019							
	(No. and	Street)		(City)		(Sta	te)		(Zip)
Drilling under dire	ection of Profession	al Geologist or Engineer Nam	e: <u>Jona</u>	athan Patr	ck Wadde	<u>                                     </u>	License N	No. PE037	262
Well Inform	ation								
		Industrial				Dewatering			
Well Application of	or Permit Number:	MW-7C	Public V	Nater System	ID:				
	rrence Letter On-sitell is located: Clay			Nater System N033°31'1		r: itude: _W084°21' <sup>∠</sup>	17.376" <sub>Fle</sub>	vation: 896	6.96
			Latitud	c					
	ıction Descrip	tion							
	Information			Rotary		Percussion	_	Bored	
Total depth of we		ft. Below Land		☐ Jetted ☐ Auger ☐ Cable Tool					
Static water level		ft. BLS(ft BTC	)C)	☐ Horizont		☐ Hand-Driven		Hydraulic	Pt.
Date static water level measured: 6/29/2015					ed: 4/10/20				
Drill Hole Di	ameter				j (⊠ as ap				
Size	in., from	0 ft. to	ft.			remie 🗌 Packer		ton 🗌 Unde	r Pressure
Size	in., from	ft. to	ft.			eat Cement 🗌 Ot			
Size in., from ft. to ft.				Present		ft. to 62 ft.		ft. to	ft.
	rd (☑ as appli	-		Perman	ent Pump	Data (☑ as a	pplicab	le)	
Primary: 🗌 Bla	ck Steel 🗌 Galvani	zed  Stainless		Pump Type		<u> </u>			
<b>X</b> PV	C Not Cased	Other:		Pump Diam	eter:	Ou	tlet size:		-
Secondary:   Te	elescope 🗌 Liner 🗌	] Surface Casing		Motor HP:		Mo	tor RPM:		-
Wall Thickness	in.			Pump Capa	city:	_ GPM Tot	al Dynamic	: Head:	ft.
Weight per foot _		SDR		Pump Set a	t:	ft. Pur	mp Disinfed	cted: 🗌 Yes	☐ No
Size: 2	in., from	0 ft. to <u>52</u>	ft.	Meter Insta	lled: 🗌 Yes	☐ No Me	ter Size & I	Rating:	
Size:	in., from	ft. to	ft.	Casing Vent	:: 🗌 Yes 🗌	No Sar	mple Tap:	☐ Yes ☐	No
Size:	in., from	ft. to	ft.	Air Line:	Yes 🗌 No	Depth ft.	Diameter	in.	
Size:	in., from	ft. to	ft.	Chemigation	n check valve	installed: $\square$ Yes	☐ No		
Well Screen	(if installed)			Test Pur	np Data (	☑ as applica	ble)		
Type material S	lotted PVC			Date Tested	l:	Sta	tic water le	evel:	ft. BLS
Size: 2	in., from <u>52</u>	ft. to 62	ft.	Test Pump	Rated:	GPM	HP		
Size:	in., from	ft. to	ft.	Total Contin	nuous Hours 7	Tested:			
Size:	in., from	ft. to	ft.	Water Leve	Stabilized: [	☐ Yes ☐ No			
Size:	in., from	ft. to	ft.	Hours before	e Stabilization	n: Sus	stained Yie	ld: GP	М
Gravel Pack	from	ft. to	ft.	Total Draw	lown:	ft. Spe	ecific Capad	city: G	SPM/ft.
Gravel Pack	from	ft. to	ft.	Pumping W		ft.	<u> </u>		
Gravel Pack	from	ft. to	ft.		Minutes to Re	cover:			
	d: Yes No	<del></del>			ped: 🗌 Yes		ll Disinfect	ed: 🗌 Yes	☐ No

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	25 Vandillinger

Well Application or Permit Number:	

Well Construction Description (continued)					
<b>Construction Techniques ( ☑ if done)</b>					
☐ Drill cuttings, materials removed ☐ Well disinfected					
☐ Casing, liner pipe joints watertight ☐ Sanitary seal					
☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)					
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped					
☐ Gravel pack washed, disinfected					
☐ Casing material new or meets national standards					
☐ Well screen – optimal development, low head loss & clog					

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water	
from	to	Type Material Effcountered	Remarks	Bearing Zones	
0					
	1	1	1		

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joz Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For Ne	ew Construction 🔲 L	Jnder Repair/Modific	:ation <u>C</u> C	ompleted 🔀	<u> Abandone</u>	d Wells 12	2/5/2016		
Property	y Owner Informati	ion							
Property Ov	wner Name: Tara Retail I	port, LLC)	Phone: (412)	807-1494	Email: M.S	tayrook@eh	ns-support.com		
Company /	Farm / Municipality / Wat	/ Tara Shop	ping Cente	r (Former D	ry Cleane	r Site)			
Address:	8564 Tara Boulevar	rd, Jonesboro, Clayf	ton County	, Georgia 3	0236				
	(No. and			(City)		(Sta	te)		(Zip)
Well Co	ntractor Informati	on							
Onsite Well	Driller Name: Edward	Wayman		L	icense No. G	A 627 WD	Phone: (7	70) 868	-5407
Well Contra	actor Company Name: Ge								
Address: F	O Box 1169, Dracu	la, GA 30019							
	(No. and			(City)		(Sta	te)		(Zip)
Drilling und	er direction of Profession	al Geologist or Engineer N	Name: Jona	athan Patricl	k Waddell		License No	. PE037	7262
Well Inf	ormation								
	rinking 🗌 Municipal 🗍 al Drinking 🔲 Geotherm					Dewatering			
Well Applica	ation or Permit Number:	NEED	Public V	Nater System II	D:				
	Concurrence Letter On-site ere well is located: Clay			Nater System W e: N033°31'10.		do: W084°21'4	6.369" Flavs	ation: 89	2.076
	nstruction Descrip		Latitude	·	Longitud	ue	LIEV	Ition	
	lling Information	CIOII		☐ Rotary		Percussion		Bored	
	of well: 62	ft. Below La	and Surface	☐ Jetted		Auger			ıol
	r level: 19.8	ft. BLS		☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.			. Pt.		
	water level measured: 6/			Date Drilled: 7/25/2006					
	e Diameter	20/2010		Grouting (					
Size	in., from	0 ft. to	ft.			mie 🗌 Packer [	Halliburto	n 🔲 Unde	er Pressure
Size	in., from	ft. to	ft.			t Cement  Ot			
Size	in., from	ft. to	ft.	☐ Present Fre			From	ft. to	ft.
Casing F	Record (☑ as appli	cable)		Permanen	it Pump D	ata (⊠ as a	pplicable	<u> </u>	
Primary:	☐ Black Steel ☐ Galvani	zed Stainless		Pump Type:		•		-	
	X PVC Not Cased	Other:		Pump Diamete	er:	Out	tlet size:		_
Secondary:	☐ Telescope ☐ Liner ☐	Surface Casing		Motor HP:		Mo	tor RPM:		_
Wall Thickn	ess in.			Pump Capacit	y:(	GPM Tot	al Dynamic I	Head:	ft.
Weight per	foot	SDR		Pump Set at:	f	ft. Pur	np Disinfecte	ed: ☐ Yes	s 🗌 No
Size: 2	in., from	0 ft. to <u>52</u>	ft.	Meter Installe	d: 🗌 Yes 🗌	No Me	ter Size & Ra	iting:	
Size:	in., from	ft. to	ft.	Casing Vent:	☐ Yes ☐ No	o Sar	nple Tap: 🗌	] Yes 🔲	No
Size:	in., from	ft. to	ft.	Air Line:	∕es □ No De	epth ft.	Diameter _	in.	
Size:	in., from	ft. to	ft.			stalled: \( \square\) Yes			
	een (if installed)			Test Pump	p Data (☑	as applical	ole)		
	ial Slotted PVC			Date Tested:			tic water leve	el:	ft. BLS
Size: 2	in., from <u>52</u>	ft. to <u>62</u>	ft.	Test Pump Ra			HP		
Size:	in., from	ft. to	ft.	Total Continuo					
Size:	in., from	ft. to	ft.	Water Level S					
Size:	in., from	ft. to	ft.	Hours before			stained Yield:		PM CDM/fb
Gravel Pack		ft. to	ft.	Total Drawdov		•	ecific Capacit	y:(	GPM/ft.
Gravel Pack		ft. to	ft.	Pumping Wate					
Gravel Picir		ft. to	ft.	Number of Mi			II Dicinfosts	. D Va-	□ No
I Graver Distr	nfected: Tes No		·	Well Develope	;u. ∟⊥ tes L	ivo = we	II Disinfected	ı. ∟ı res	

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Well Application or Permit Number:	

Well Construction Description (continued)						
<b>Construction Techniques ( ☑ if done)</b>						
☐ Drill cuttings, materials removed ☐ Well disinfected						
☐ Casing, liner pipe joints watertight ☐ Sanitary seal						
☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)						
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped						
☐ Gravel pack washed, disinfected						
☐ Casing material new or meets national standards						
☐ Well screen – optimal development, low head loss & clog						

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water	
from	to	Type Material Encountered	Remarks	Bearing Zones	
0					

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

This well was drilled and constructed (or plugged/abandoned, if applicable) in accordance with the Georgia Water Well Standards Act, O.C.G.A. 12-5-120 et seq., Georgia Groundwater Use Act, O.C.G.A. 12-5-90 et seq. and 12-5-105 et seq., Georgia Safe Drinking Water Act, O.C.G.A. 12-5-170 et seq., and applicable Georgia Department of Natural Resources' rules, regulations and guidance documents.

Joz Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For New	Construction U	Inder Repair/Modifica	ation 🗌	Completed	<b>X</b> Abando	ned Wells 1	2/5/20	16	
Property (	Owner Information	on							
Property Owner Name: Tara Retail Holdings LLC (completed by EHS Support, LLC) Phone: (412) 807-1494 Email: Michelle.Stayrook@ehs-Support							ehs-Support.c		
Company / Fa	rm / Municipality / Wate	er System Name: Ashl	and, LL(	C / Tara Sh	opping Cer	nter (Former D	Ory Clea	aner Site)	
Address: 85	664 Tara Boulevar	d, Jonesboro, Clayto	on Coun	ty, Georgia	30236				
	(No. and S	Street)		(City)		(Sta	ate)	(	Zip)
Well Cont	ractor Information	on							
Onsite Well Dr	riller Name: Edward	Wayman			License No.	GA 627 WD	Phone	: (770) 868-5	407
Well Contracto	or Company Name: Ge	oLabs, Inc							
Address: PO	Box 1169, Dracula	a, GA 30019							
	(No. and S			(City)		(Sta	ate)	(	Zip)
Drilling under	direction of Professiona	al Geologist or Engineer N	<sub>ame:</sub> <u>Jo</u>	nathan Pati	ick Wadde	ell	Licens	e No. PE0372	262
☐ Individual   Well Applicatio ☐ Permit/Cor	king 🗌 Municipal 🔲	2	Injectio Public	n	ell Type: n ID: n Well Numbe		46.255" <sub> </sub>	Elevation: 891	917
	truction Descript								
	ng Information			☐ Rotary		Percussion		☐ Bored	
Total depth of		ft. Below Lar	nd Surface	☐ Jetted		Auger		☐ Cable Tool	
Static water le		ft. BLS (ft B			☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.			) <del>+</del>	
	ter level measured: 6/2				ed: 4/10/20	1		inyuruune i	
Drill Hole		23/2013				pplicable)			
Size	in., from	0 ft. to	ft.	_		Tremie  Packer	☐ Hallih	ourton 🗆 Under	Pressure
Size	in., from	ft. to	ft.			Neat Cement  C			
Size	in., from	ft. to	ft.	☐ Present		ft. to 100 ft.		ft. to	ft.
	cord (☑ as applic					Data (☑ as			. 4-
	Black Steel  Galvaniz			Pump Type	•				
•	PVC Not Cased			Pump Dian		<u>—</u> Оι	ıtlet size:		
	Telescope Liner		_	Motor HP:			otor RPM		
Wall Thickness		<u>.                                      </u>		Pump Capa	acity:	GPM To	tal Dyna	mic Head:	ft.
Weight per foo	·	SDR		Pump Set a				fected: Tes	□ No
Size: 2	in., from	0 ft. to 85	ft.		alled: Yes			& Rating:	
Size:	in., from	ft. to	ft.		t: Yes			o: Yes I	lo
Size:	in., from	ft. to	ft.		☐ Yes ☐ No		Diame		
Size:	in., from	ft. to	ft.	_		installed: Yes			
Well Scree	en (if installed)					☑ as applica			
Type material	Slotted PVC			Date Teste	d:	St	atic wate	r level: f	. BLS
Size: 2	in., from <u>85</u>	ft. to 100	ft.	Test Pump	Rated:	GPM	HP		
Size:	in., from	ft. to	ft.	Total Conti	nuous Hours	Tested:			
Size:	in., from	ft. to	ft.	Water Leve	el Stabilized:	☐ Yes ☐ No			
Size:	in., from	ft. to	ft.	Hours befo	re Stabilizatio	n: Su	stained \	/ield: GPN	1
Gravel Pack	from	ft. to	ft.	Total Draw	down:	ft. Sp	ecific Ca	pacity: GF	M/ft.
Gravel Pack	from	ft. to	ft.	Pumping W	/ater Level: _	ft.			
Gravel Pack	from	ft. to	ft.	Number of	Minutes to Re	ecover:			
Gravel Disinfe	cted: Yes No			Well Devel	oped: 🗌 Yes	s □ No W	ell Disinfe	ected:  Yes	□ No

and street and	N. Carrie		The Park
	The State of the S		Descriptions
No. of Concession, Name of Street, or other Persons, Name of Street, or ot		11900	

Well Application or Permit Number:	

Well Construction Description (continued)						
<b>Construction Techniques ( ☑ if done)</b>						
☐ Drill cuttings, materials removed ☐ Well disinfected						
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☐ Well screen – optimal development, low head loss & clog						

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water	
from	to	Type Material Effcountered	Remarks	Bearing Zones	
0					
	1	1	1		

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For Nev	w Construction U	nder Repair/Modific	ation 🔲 (	Completed	<b>X</b> Abando	ned Wells 1	2/5/201	6	
Property	<b>Owner Informati</b>	on							
Property Ow	ner Name: <mark>Tara Retail F</mark>	pport, LLC)	Phone: (41	2) 807-1494	Email:	Michelle.Stayrook	@ehs-Support.co		
Company / F	arm / Municipality / Wate	: / Tara Sh	opping Cer	iter (Former D	ry Clea	ner Site)			
Address: 8	3564 Tara Boulevar	d, Jonesboro, Clayi	ton Count	y, Georgia	30236				
	(No. and	Street)		(City)		(Sta	ite)		(Zip)
Well Con	tractor Information	on							
Onsite Well I	Driller Name: Edward '	Wayman			License No.	GA 627 WD	Phone:	(770) 868-	-5407
Well Contrac	tor Company Name: Ge	oLabs, Inc							
Address: PO	D Box 1169, Dracul	a, GA 30019							
	(No. and			(City)		(Sta	ite)		(Zip)
Drilling unde	r direction of Professiona	ıl Geologist or Engineer N	Name: <u>Jor</u>	athan Pati	rick Wadde	<u>                                     </u>	License	No. PE037	'262
·					ell Type: n ID: n Well Numbe		45.293" <sub>E</sub>	Elevation: 89°	1.28
	struction Descript								
	ling Information			Rotary		Percussion		Bored	
Total depth		ft. Below La	nd Surface	☐ Jetted		Auger		☐ Cable Too	nl
	level: 18.36	ft. BLS ft B			☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.				
	vater level measured: 6/		,,,,,,,	_	ed: 2/20/20			riyaraane	. 1 (.
	Diameter	25/2015			g (☑ as ap				
Size	in., from	0 ft. to	ft.			remie Packer	☐ Hallibi	ırton 🗆 Unde	er Pressure
Size	in., from	ft. to	ft.			eat Cement 🗌 O		a. co oac	
Size	in., from	ft. to	ft.	X Present			From	ft. to	ft.
	ecord (☑ as applic					Data (☑ as a			
	Black Steel Galvaniz			Pump Type	-	<u> </u>	ирриса		
	PVC Not Cased			Pump Dian		— Ou	ıtlet size:		
	☐ Telescope ☐ Liner ☐			Motor HP:			tor RPM:		_
Wall Thickne	•	<u>,</u>		Pump Capa	acitv:			nic Head:	ft.
Weight per f		SDR		Pump Set a				ected:  Yes	
Size: 2	in., from	0 ft. to 20	ft.	· ·	alled: Yes		ter Size 8		
Size:	in., from	ft. to	ft.		t: Yes			: Yes 🗌	No
Size:	in., from	ft. to	ft.	_	☐ Yes ☐ No		Diamet		
Size:	in., from	ft. to	ft.	Chemigatio	n check valve	installed: Yes			
Well Screen (if installed)					mp Data (	☑ as applica	ble)		
	Slotted PVC			Date Teste		-	atic water	level:	ft. BLS
Size: 2	in., from 20	ft. to 30	ft.	Test Pump	Rated:	GPM	HP		
Size:	in., from	ft. to	ft.	Total Conti	nuous Hours 1	Tested:			
Size:	in., from	ft. to	ft.	Water Leve	el Stabilized: [	☐ Yes ☐ No			
Size:	in., from	ft. to	ft.	Hours befo	re Stabilization	n: Su	stained Y	ield: GF	PM
Gravel Pack	from	ft. to	ft.	Total Draw	down:	ft. Sp	ecific Cap	acity: (	GPM/ft.
Gravel Pack	from	ft. to	ft.	Pumping W	/ater Level:	ft.			
Gravel Pack	from	ft. to	ft.	Number of	Minutes to Re	cover:			
Gravel Disinf	ected: Yes No			Well Devel	oped: 🗌 Yes	□ No We	ell Disinfe	cted:	☐ No

THE TAX Y

Well Application or Permit Number:	

Well Construction Description (continued)					
Protection from Pollutants (☑ if done)	Construction Techniques (☑ if done)				
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected				
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal				
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)				
☐ > 100 ft. animal enclosure ☐ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped				
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected				
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards				
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog				

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water		
from	to	Type Material Effective	Remarks	Bearing Zones		
0						

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
	CA 627 M/D	
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For Ne	w Construction U	nder Repair/Modifica	ation 🔲 Co	ompleted	<b>X</b> Abandoı	ned Wells 1	2/5/2010	6	
<b>Property</b>	Owner Information	on							
Property Ow	ner Name: <mark>L6-Clay Prop</mark>	, LLC)	Phone: (41	2) 807-1494	Email: N	lichelle.Stayrook	k@ehs-Support.o		
Company / Farm / Municipality / Water System Name: Ashland, LLC / Tara Shopping Center (Former Dry Cleaner Site)									
Address: {		d, Jonesboro, Clayto	on County		30236				
	(No. and S	,		(City)		(Sta	te)		(Zip)
Well Con	tractor Information	on							
Onsite Well Driller Name: Edward Wayman					License No.	GA 627 WD	Phone:	(770) 868	-5407
Well Contractor Company Name: GeoLabs, Inc									
Address: P	O Box 1169, Dracula			(5)					
	(No. and S		laa.	(City)	! a.l . \ \ \ / a al al a	(Sta			(Zip)
Drilling unde	er direction of Professiona	l Geologist or Engineer Na	ame: Jona	atnan Patr	ick wadde	<u>                                     </u>	License	No. PE037	7262
Well Info									
		Industrial 🗌 Agricultural al 🗷 Test / Monitoring [				Dewatering			
	tion or Permit Number:			Vater System					
	oncurrence Letter On-site				Well Number				
	re well is located: Clay		Latitude	e: N033°31'	12.035" Long	itude: <u>W084°21'</u>	16.525" <sub>El</sub>	evation: <u>89</u>	3.98
	struction Descript	ion							
	ling Information			☐ Rotary ☐ Percussion ☐		☐ Bored			
Total depth		ft. Below Lan		☐ Jetted ☐ Auger ☐ Cable Tool		ol			
	level: 25.35	ft. BLS(ft B	TOC)	☐ Horizon		☐ Hand-Driven		☐ Hydraulio	c Pt.
	water level measured: 11	/15/2016		Date Drille	<b>ed:</b> 3/30/20	11			
Drill Hole	e Diameter				g (🗹 as ap				
Size	in., from	0 ft. to	ft.			remie  Packer		rton 🗌 Unde	er Pressure
Size	in., from	ft. to	ft.			eat Cement 🗌 O			
Size	in., from	ft. to	ft.	☐ Present			From	ft. to	ft.
	ecord (☑ as applic					Data (☑ as a	pplical	ole)	
	☐ Black Steel ☐ Galvaniz			Pump Type		<u> </u>			
	PVC Not Cased		_	Pump Diam	eter:		tlet size:		_
	☐ Telescope ☐ Liner ☐	Surface Casing		Motor HP:			tor RPM:		
Wall Thickne				Pump Capa				ic Head:	ft.
Weight per	· · · · · · · · · · · · · · · · · · ·	SDR		Pump Set a	· · · · · · · · · · · · · · · · · · ·	_		ected:  Yes	₃ ∐ No
Size: 2	in., from	0 ft. to <u>20</u>	ft.				ter Size &		1
Size:	in., from		ft.		::			☐ Yes ☐	] No
Size:	in., from	ft. to	ft.		Yes No			r in.	
Size:	in., from	ft. to	ft.			installed: Yes			
Well Screen (if installed)  Type material Slotted PVC						☑ as applica		lovalı	ft DLC
Size: 2	in., from 20	ft. to 30	ft.	Date Tester	Rated:		itic water HP	ievei:	ft. BLS
Size:	in., from	ft. to	ft.		nuous Hours 1		ПР		
Size:	in., from	ft. to	ft.			☐ Yes ☐ No			
Size:	•	ft. to	ft.		e Stabilization		stained Yie	eld: Gi	PM
Gravel Pack		ft. to	ft.	Total Draw			ecific Capa		GPM/ft.
Gravel Pack		ft. to	ft.	Pumping W		ft.		-,	
Gravel Pack		ft. to	ft.		Minutes to Re				
Gravel Disin					ped: Yes		ell Disinfec	ted: Yes	□ No

No. of the last	0 0	THE STREET
	0 0	Trans. A Referen
	1 6	Finanti Bitting
	Total State	

Well Application or Permit Number:	

Well Construction Description (continued)					
Protection from Pollutants (☑ if done)	<b>Construction Techniques ( ☑ if done)</b>				
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected				
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal				
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)				
$\square$ > 100 ft. animal enclosure $\square$ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped				
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected				
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards				
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog				
<ul> <li>⇒ 150 ft. seep pit  ⇒ 100 ft. septic drain field</li> <li>⇒ 100 ft. animal enclosure  protected from runoff</li> <li>casing &gt; 2 ft. above floodplain or highest known flood</li> <li>Water-bearing formations sealed if likely to be polluted</li> </ul>	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic) ☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped ☐ Gravel pack washed, disinfected ☐ Casing material new or meets national standards				

	Feet (BLS) Type Material Encountered		Remarks	Indicate Water
from	to	Type Material Effective	Remarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joe Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334 PHONE: (404) 656-4713

# Well Completion Data Form

For New Co	onstruction U	nder Repair/Modifica	tion 🔲 C	completed	<b>X</b> Abandoi	ned Wells 1	2/5/20 <i>°</i>	16	
Property Ow	ner Information	on					_		
Property Owner N	Name: What A Day	Adult Day Care (complete	ed by EHS	Support, LLC	Phone: (41	2) 807-1494	Email:	Michelle.Stayrook@	ehs-Support.co
Company / Farm	/ Municipality / Wate	er System Name: Ashla	and, LLC	/ Tara Sho	opping Cen	iter (Former D	ry Clea	aner Site)	
Address: 8564		d, Jonesboro, Clayto	n County	_	30236				
	(No. and S			(City)		(Sta	te)	(	(Zip)
Well Contrac	ctor Information	on					1		
Onsite Well Drille	r Name: Edward \	Wayman			License No.	GA 627 WD	Phone	(770) 868-	5407
Well Contractor C	Company Name: Ge	oLabs, Inc							
Address: PO Bo	ox 1169, Dracula								
	(No. and S			(City)		(Sta	te)	(	(Zip)
Drilling under dire	ection of Professiona	ll Geologist or Engineer Na	me:				License	e No.	
☐ Individual Drin Well Application of ☐ Permit/Concu	g 🗌 Municipal 🔲 🛚	2	Injection Public Public	Other Wow Water System Water System	ell Type: 1 ID: 1 Well Number		14.189" <sub>[</sub>	Elevation: 883	
Well Constru	uction Descript	tion							
	Information			☐ Rotary		Percussion		Bored	
Total depth of we		ft. Below Land	d Surface	☐ Jetted		☐ Auger		☐ Cable Too	1
Static water level		ft. BLS(ft BT		Horizon	tal	☐ Hand-Driven		☐ Hydraulic	
	level measured: 11				ed: 9/3/201			Пуагаанс	
Drill Hole Di		714/2010			g (🗹 as ap				
Size	in., from	0 ft. to	ft.			remie  Packer	☐ Hallib	urton 🗆 Under	Pressure
Size	in., from	ft. to	ft.			eat Cement  Ot			
Size	in., from	ft. to	ft.			ft. to 30 ft.		ft. to	ft.
	rd (☑ as applic					Data (☑ as a			
	ck Steel  Galvaniz			Pump Type			Р		
	C Not Cased			Pump Diam		Ou	tlet size:		
	elescope 🗌 Liner 🔲			Motor HP:			tor RPM:	·	
Wall Thickness	in.	<u> </u>		Pump Capa	citv:			nic Head:	ft.
Weight per foot		SDR		Pump Set a				fected: Tes	 □ No
Size: 2	in., from	0 ft. to 20	ft.	· ·	ılled: Yes			& Rating:	
Size:	in., from	ft. to	ft.	Casing Ven	t: 🗌 Yes 🗌	No Sar	nple Tap	o: Yes 🗌	No
Size:	in., from	ft. to	ft.		] Yes □ No		Diamet		
Size:	in., from	ft. to	ft.	Chemigatio	n check valve	installed: Yes			
	(if installed)					☑ as applical			
Type material S	lotted PVC			Date Teste			tic water	level: f	t. BLS
Size: 2	in., from 20	ft. to 30	ft.	Test Pump	Rated:	GPM	HP		
Size:	in., from	ft. to	ft.	Total Conti	nuous Hours T	Tested:			
Size:	in., from	ft. to	ft.	Water Leve	l Stabilized: [	☐ Yes ☐ No			
Size:	in., from	ft. to	ft.	Hours befo	re Stabilization	n: Sus	stained Y	ield: GPI	М
Gravel Pack	from	ft. to	ft.	Total Draw	down:	ft. Spe	ecific Cap	oacity: G	PM/ft.
Gravel Pack	from	ft. to	ft.	Pumping W	ater Level:	ft.			
Gravel Pack	from	ft. to	ft.	Number of	Minutes to Re	cover:			
Gravel Disinfected	d: 🗌 Yes 🗌 No			Well Develo	oped: 🗌 Yes	□ No We	ell Disinfe	cted:  Yes	☐ No

	SEAT MESSAGE	1
THE REAL PROPERTY.	The Track	
	June 19 114	Miles

Well Application or Permit Number:	

Well Construction Description (continued)	
Protection from Pollutants (☑ if done)	Construction Techniques (☑ if done)
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected
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from	to	Type Material Effcountered	Remarks	Bearing Zones
0				
	1	1	1	

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Joz Data	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



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PHONE: (404) 656-4713

# Well Completion Data Form

For Ne	w Construction U	nder Repair/Modifica	ation 🔲 C	Completed	<b>X</b> Abandor	ned Wells 12	2/5/201	6	
Property	Owner Information	on							
Property Ow	vner Name: What A Day	Adult Day Care (complet	ed by EHS	Support, LLC	Phone: (41	2) 807-1494	Email:	Michelle.Stayrook	@ehs-Support.co
Company /	Farm / Municipality / Wate	er System Name: Ashl	and, LLC	/ Tara Sho	pping Cen	ter (Former D	ry Clea	ner Site)	
Address:	177 College Street,	Jonesboro, Clayton	County, 0	Georgia 30	0236				
_	(No. and S			(City)		(Stat	:e)		(Zip)
Well Cor	ntractor Information	on							
Onsite Well	Driller Name: Edward \	Wayman			License No.	GA 627 WD	Phone:	(770) 868-	5407
Well Contra	ctor Company Name: Ge	oLabs, Inc							
Address: P	O Box 1169, Dracula	a, GA 30019							
	(No. and S			(City)		(Stat			(Zip)
Drilling unde	er direction of Professiona	I Geologist or Engineer N	<sub>ame:</sub> <u>Jon</u>	athan Patr	ick Wadde	<u>                                     </u>	License	No. PE037	262
☐ Public Di ☐ Individua Well Applica ☐ Permit/O	ormation rinking □ Municipal □ al Drinking □ Geotherma ution or Permit Number: □ concurrence Letter On-site re well is located: Clay	al <b>X</b> Test / Monitoring [ MW-22B	Injection Public Public	☐ Other We Water System Water System	ell Type: ID: Well Number		4.124" <sub>E</sub>	levation: 883	3.29
	struction Descript								
	ling Information			☐ Rotary		Percussion		Bored	
	of well: 77	ft. Below Lar	nd Surface	☐ Jetted		☐ Auger		☐ Cable Too	ol
	level: 15.47	ft. BLS (ft B		Horizon	al	☐ Hand-Driven		☐ Hydraulic	
	water level measured: 11			Date Drille	ed: 9/3/201				
	e Diameter	711/2010			g (☑ as ap				
Size	in., from	0 ft. to	ft.			remie  Packer [	Hallib	urton 🗌 Unde	r Pressure
Size	in., from	ft. to	ft.			eat Cement 🗌 Ot			
Size	in., from	ft. to	ft.	▼ Present		ft. to 77 ft. F		ft. to	ft.
Casing R	Record (☑ as applic	cable)				Data (☑ as a		ble)	
	☐ Black Steel ☐ Galvaniz			Pump Type		_	-		
· ·	▼ PVC  Not Cased			Pump Diam		Out	let size:		
	☐ Telescope ☐ Liner ☐			Motor HP:		Mot	or RPM:		
Wall Thickne	ess in.			Pump Capa	city:	_ GPM Tot	al Dynan	nic Head:	ft.
Weight per	foot	SDR		Pump Set a	t:	_ ft. Pun	np Disinf	ected: \( \square \) Yes	☐ No
Size: 2	in., from	0 ft. to <u>67</u>	ft.	Meter Insta	lled:  Yes	☐ No Met	er Size 8	k Rating:	
Size:	in., from	ft. to	ft.	Casing Ven	t: 🗌 Yes 🗌	No San	nple Tap	: 🗌 Yes 🔲	No
Size:		ft. to	ft.	Air Line:	Yes No	Depth ft.	Diamet	er in.	
Size:	in., from	ft. to	ft.	Chemigatio	n check valve	installed:   Yes	□ No		
	een (if installed)					☑ as applical	ole)		
	ial Slotted PVC			Date Teste	d:	Sta	tic water	level:	ft. BLS
Size: 2	in., from <u>67</u>	ft. to <u>77</u>	ft.	Test Pump	Rated:	GPM1	ΗP		
Size:	in., from	ft. to	ft.	Total Conti	nuous Hours T	ested:			
Size:	in., from	ft. to	ft.	Water Leve	Stabilized:	☐ Yes ☐ No			
Size:	in., from	ft. to	ft.	Hours befo	e Stabilization	n: Sus	tained Y	ield: GP	М
Gravel Pack	from	ft. to	ft.		down:1		cific Cap	acity:	SPM/ft.
Gravel Pack	from	ft. to	ft.	Pumping W	ater Level:	ft.			
Gravel Pack	from	ft. to	ft.	Number of	Minutes to Re	cover:			
Gravel Disin	fected: Yes No			Well Develo	ped: 🗌 Yes	☐ No We	II Disinfe	cted:	☐ No

1		n n	- No. of the last	
		0 11	in the second	
		Sec.	January Miller	(me
	A CONTRACTOR	TO STATE OF		W la

Well Application or Permit Number:	

Construction Techniques (☑ if done)
☐ Drill cuttings, materials removed ☐ Well disinfected
☐ Casing, liner pipe joints watertight ☐ Sanitary seal
Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)
☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped
☐ Gravel pack washed, disinfected
☐ Casing material new or meets national standards
☐ Well screen – optimal development, low head loss & clog

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water
from	to	Type Material Effective	Remarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joz Dist	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

For _	_New Co	nstruction L	Under	Repair/M	odificatio	on <u>C</u>	ompleted	<b>X</b> Abando	ned Wells	12/5/20	16	
Prop	erty Ow	ner Inform	ation									
Proper	ty Owner N	lame: Roberto (	Garcia (cor	mpleted by	EHS Supp	ort, LLC	)	Phone: (41	2) 807-1494	Email:	(Michelle.Sta	ayrook@ehs-Suppoi
Company / Farm / Municipality / Water System Name: Ashland, LLC				d, LLC	/ Tara Sho	opping Cer	nter (Former	Dry Clea	aner Site	e)		
Addres	s: Faye	tteville Roac	l, Jonesh	oro, Cla	yton Cou	ınty, Ge	eorgia 30	236				
			and Street)				(City)		(9	State)		(Zip)
Well	Contrac	ctor Inform	ation									
Onsite	Well Driller	Name: Edwa	rd Wayn	nan				License No.	<b>GA 627</b> WD	Phone	: (770) 8	368-5407
Well C	ontractor Co	ompany Name:	GeoLab	s, Inc								
Addres	s: PO Bo	ox 1169, Dra	cula, GA	30019								
			and Street)				(City)			State)		(Zip)
Drilling	under dire	ection of Profess	ional Geolo	gist or Eng	ineer Name	e: <u>Jona</u>	athan Patr	ick Wadde	<u>                                     </u>	License	e No. PE	037262
Well	Informa	ation										
		g 🗌 Municipal							Dewatering			
∐ Ind	ividual Drin	nking	ermal 🗶 T	Test / Monit	toring   I							
		rence Letter On		<u> </u>			Nater System Nater System	ו זט: ו Well Numbe	r:	_		
		Il is located: C	-						itude: W084°2	1'43.454" ¡	Elevation:	888.1
						Latitude	C	Long			icvation.	
		iction Desci					□ Determ		□ Deveyagien		□ Dawa	d
	lepth of we	Informatio	'n	4 Da	elow Land S	`£= ==	Rotary		Percussion	1	☐ Bore	
	· •						☐ Jetted	L_1	☐ Auger		Cable	
	water level:		44/44/0		s <b>cff BTO</b>		Horizon		☐ Hand-Driv	en	☐ Hydr	aulic Pt.
		level measured:	11/14/2	.016				ed: 6/13/20				
	Hole Dia			ft to	10	£L.		g (🗹 as ap		Uallib		Under Pressure
Size Size	2	in., from	20	ft. to	10	ft. ft.			leat Cement		uiton 🗀 t	Under Pressure
Size	2	in., from	20	ft. to		ft.			ft. to 20 1		00 ft t	20 ft
		rd (☑ as ap				11.			Data ( as		20 ft. to	20 ft.
Primar		ck Steel 🗌 Galv	•	Stainless			Pump Type		Data (M as	э аррисс	inie)	
FIIIIai		C Not Cased					Pump Diam			Outlet size:		
Second		elescope  Line					Motor HP:			Motor RPM:	_	
	hickness	in.	ı 🔲 Junac	Je Casing			Pump Capa	city:		Total Dynar	_	ft.
	per foot _	"".		SDR			Pump Set a		,			Yes  No
Size: _2	•	in., from	0	ft. to 10	<u>—</u> )	ft.		illed: Tes		Meter Size		1103 🗀 110
Size: _		in., from	20	ft. to		ft.		t:		Sample Tap		□ No
Size: _		in., from		ft. to	=	ft.	_		Depth f			
Size:		in., from		ft. to	_	ft.			installed: \( \sum \)			
		(if installed	)						☑ as applic			
		otted PVC	')					d:		Static water	r level:	ft. BLS
Size: 2		in., from 10		ft. to 20	)	ft.	Test Pump	Rated:		HP		
Size:		in., from	<u></u>	ft. to		ft.		nuous Hours 1		<del>_</del>		
Size:		in., from		ft. to	<u>=</u>	ft.			☐ Yes ☐ No			
Size:		in., from		ft. to		ft.		re Stabilization		Sustained Y	/ield:	GPM
Gravel	<u> </u>	from		ft. to		ft.		down:		Specific Car		
Gravel		from		ft. to		ft.		ater Level:				
Gravel		from		ft. to	<u>=</u>	ft.		Minutes to Re				
		d: Yes I						ped: Yes		Well Disinfe	ected:	Yes 🗌 No

n n	T WAR DOWN
0 1	The Tax
	Description of

Well Application or Permit Number:	

Well Construction Description (continued)				
Protection from Pollutants (☑ if done)	Construction Techniques (☑ if done)			
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected			
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal			
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)			
☐ > 100 ft. animal enclosure ☐ protected from runoff	☐ Concrete Curbed/Pad > 4 in. thick, extend > 2 ft., sloped			
☐ casing > 2 ft. above floodplain or highest known flood	☐ Gravel pack washed, disinfected			
☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards			
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog			

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water
from	to	Type Material Effective	Remarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joz Duth	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



2 Martin Luther King Jr. Drive SE, Suite 1152 East Tower, Atlanta, Georgia 30334

PHONE: (404) 656-4713

# Well Completion Data Form

			ificatio	n <u> </u> C	ompleted 🔼 Abando	ned Wells	12/5/20	16	
Property C	Owner Informati	ion							
Property Owne	er Name: Roberto Gar	rcia (completed by EH	IS Supp	ort, LLC	Phone: (4	12) 807-1494	Email:	Michelle.Stayroo	k@ehs-Support.
Company / Far	rm / Municipality / Wat	ter System Name: 🔑	Ashland	d, LLC	/ Tara Shopping Ce	nter (Former	Dry Clea	aner Site)	
Address: Fay	etteville Road, Jo	nesboro, Claytor	า Coun	ity, Geo	orgia 30236				
	(No. and				(City)	(S	itate)		(Zip)
	ractor Informati								
Onsite Well Dr	iller Name: Edward	Wayman			License No	. <mark>GA 627</mark> WD	Phone	: (770) 868	-5407
Well Contracto	or Company Name: Ge	eoLabs, Inc							
Address: PO	Box 1169, Dracul	la, GA 30019							
	(No. and				(City)		tate)		(Zip)
Drilling under o	direction of Profession	al Geologist or Engine	er Name	: Jona	athan Patrick Wadd	ell	Licens	e No. PE037	7262
<b>Well Infor</b>									
Public Drinl	king 🗌 Municipal 🗌	Industrial 🗌 Agricul	tura <u>l /</u> Ir	rrigation	Well   Bore/core hole	Dewatering			
☐ Individual [	Drinking	nal X Test / Monitori	ng 🗌 Ii		Other Well Type: Vater System ID:				
	icurrence Letter On-site				Vater System Vell Numb	er:	_		
	well is located: Clay				e: N033°31'10.841" Lon		1'43.444"	Elevation: 88	8.1
	truction Descrip								
	ng Information				☐ Rotary	☐ Percussion		☐ Bored	
Total depth of		ft. Below	v Land Sı	urface	☐ Jetted	☐ Auger		☐ Cable To	ol
Static water le	vel: 18.54	ft. BLS	ft BTO	$\overline{\mathbb{C}}$	☐ Horizontal ☐ Hand-Driven ☐ Hydraulic Pt.			: Pt.	
Date static waf	ter level measured: 1	1/14/2016			Date Drilled: 6/13/2	015			
<b>Drill Hole I</b>	Diameter				Grouting (☑ as a	pplicable)			
Size	in., from	0 ft. to 5	59.5	ft.	Method: 🗌 Casing 🗵	Tremie 🗌 Packe	er 🗌 Hallib	ourton 🗌 Und	er Pressure
Size	in., from	ft. to		ft.	Type: X Bentonite	Neat Cement 🗌	Other:		
Size	in., from	ft. to		ft.	▼ Present From 0	ft. to 69.5 ft		ft. to	ft.
	cord (☑ as appli				Permanent Pump	Data (☑ as	applica	able)	
•	Black Steel  Galvani				Pump Type:				
	PVC Not Cased				Pump Diameter:		Outlet size:		_
•	Telescope  Liner	Surface Casing			Motor HP:	<u> </u>	1otor RPM		_
Wall Thickness	<u></u>				Pump Capacity:		Total Dynai		ft.
Weight per foo		SDR			Pump Set at:			fected: Yes	s ∐ No
Size: 2	in., from	0 ft. to <u>59.5</u>		ft.	Meter Installed: Yes		1eter Size		1
Size:	in., from	ft. to		ft.	Casing Vent: Yes			o: Yes C	I INO
Size:		ft. to		ft. ft.	Air Line: Yes No	•		ter in.	
Size:	in., from en (if installed)	ft. to		π.	Chemigation check valv  Test Pump Data				
					Date Tested:			r level:	ft. BLS
Type material	Cidllod i VO	60.5		ft.	Test Pump Rated:		HP	1 1CVCI	וני חרט
		# 10 03.3		16.	i i coc i utilio ivaledi.		_ ' ''		
Size: 2	in., from <u>59.5</u>			ft		Tested:			
Type material Size: 2 Size:	in., from <u>59.5</u> in., from <u> </u>	ft. to		ft.	Total Continuous Hours				
Size: Size:	in., from <u>59.5</u> in., from <u></u> in., from <u></u>	ft. to ft. to		ft.	Total Continuous Hours Water Level Stabilized:	☐ Yes ☐ No	Sustained \	/ield: G	PM
Size: Size: Size:	in., from <u>59.5</u> in., from in., from	ft. to ft. to ft. to		ft. ft.	Total Continuous Hours Water Level Stabilized: Hours before Stabilization	☐ Yes ☐ No on: S			PM GPM/ft.
Size: 2 Size: Size: Size: Gravel Pack	in., from 59.5 in., from in., from from	ft. to ft. to ft. to ft. to		ft. ft. ft.	Total Continuous Hours Water Level Stabilized: Hours before Stabilization Total Drawdown:	Yes No on: S ft. S	Sustained \		PM GPM/ft.
Size: 2           Size:           Size:           Size:	in., from <u>59.5</u> in., from in., from	ft. to ft. to ft. to		ft. ft.	Total Continuous Hours Water Level Stabilized: Hours before Stabilization	☐ Yes ☐ No on: S oft. S ft.			

1000			
			The Table
		7 25	Descriptions.
ASSESSED BY	1000		211111

Well Application or Permit Number:	

Well Construction Description (continued)				
Protection from Pollutants (☑ if done)	Construction Techniques (☑ if done)			
☐ Upgradient from pollutant sources	☐ Drill cuttings, materials removed ☐ Well disinfected			
$\square$ >10 ft. sewer line $\square$ > 50 ft. septic tank	☐ Casing, liner pipe joints watertight ☐ Sanitary seal			
$\square$ >150 ft. seep pit $\square$ > 100 ft. septic drain field	☐ Grouted to 10 ft. (Individual) 20-50 ft. (Irrigation, Nonpublic)			
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☐ Water-bearing formations sealed if likely to be polluted	☐ Casing material new or meets national standards			
☐ Health Dept. notified ☐ Health Dept. variance	☐ Well screen – optimal development, low head loss & clog			

Feet (BLS)		Type Material Encountered	Remarks	Indicate Water
from	to	Type Material Encountered	Kemarks	Bearing Zones
0				

(If more space is required, use additional sheets. If available, submit any additional pump test data or geophysical logs.)

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Joz Date	12/8/16	
Signature of Licensed Well Contractor's Name		Date
F. Joe Grantham	GA 627 WD	
Printed Licensed Well Contractor's Name		License No.



### APPENDIX E

**Professional Certification** 

#### 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."

Jonathan Patrick Waddell, A=037262 Printed Name and GA PE/PG Nu

01/31/2017

Signature and Stamp

