

June 28, 2018

Mr. Kevin Collins
Response & Remediation Program
Georgia Environmental Protection Division
2 Martin Luther King Jr. Drive, SE,
Suite 1054
Atlanta, Georgia 30334

RE: **Voluntary Remediation Program Semi-Annual Progress Report #12**
Tara Shopping Center
8564 Tara Boulevard, Jonesboro, Clayton County, Georgia
Tax Parcel ID 13242D B001; HSI Site No. 10798

Dear Mr. Collins,

On behalf of Ashland LLC (“Ashland”), EHS Support LLC (“EHS Support”) is submitting this Semi-Annual Progress Report #12 for the Site referenced above. Pursuant to the Voluntary Remediation Program (VRP) application conditional approved letter issued on June 28, 2012, semi-annual progress reports are submitted throughout the duration of the VRP program.

The purpose of this progress report is to provide a summary of corrective action activities completed between January and June 2018 in accordance with the Groundwater Correction Action Plan (Groundwater CAP) dated March 17, 2016. Activities performed during this monitoring period included:

- Semi-annual groundwater monitoring of both shallow and bedrock monitoring wells
- Semi-annual surface water sampling in the unnamed creek
- Soil vapor and indoor air assessment activities
- Continued pursuit of Streamlined Uniform Environmental Covenants (SUECs)
- Continued access negotiations at Parcel 13242D A016 (to regain access to MW-15C and MW-24C).

1.0 Groundwater Corrective Action Program

The Groundwater CAP was submitted on March 17, 2016 and was subsequently approved on August 22, 2016 by the Georgia Environmental Protection Division (GA EPD). The Groundwater CAP included an updated remediation schedule through 2019, established the corrective action monitoring program outlined below, and proposed SUECs as institutional controls at seven off-site properties. Minor revisions to the Groundwater CAP were submitted on November 4, 2016. Groundwater CAP activities include:

- Semi-annual monitoring of select bedrock monitoring wells (C and D Zone) via passive diffusion bags (PDBs) including MW-15C, MW-16C, MW-19B/C/D, MW-20C, and MW-24C
- Semi-annual surface water sampling in the unnamed creek including, storm-water outfall location OF-2 and downgradient surface water locations SS-1, SS-2, and SS-3
- Annual monitoring of select unconsolidated monitoring wells (A and B Zone) including MW13A/B, MW-15A/B, and MW-16A/B



- Annual inspection and maintenance of the monitoring well network (36 monitoring wells and three creek survey points)
- Annual gauging of monitoring wells and stream gauge SG-1/SS-1 to verify groundwater flow direction
- Analysis of volatile organic compounds (VOCs) using United States Environmental Protection Agency (USEPA) Method 8260B
- Preparation of semi-annual VRP progress reports
- Execution of SUECs as institutional controls at seven off-site properties including Parcels 13242D A001, A012, A016/A018, B001A, B002/B002Z, B006/B006Z, and B007/B007Z.

The purpose of the corrective action monitoring program is to collect a minimum of eight rounds of additional groundwater data, such that a statistical evaluation can be completed on a robust set of historical and recent groundwater data. The existing corrective action monitoring program will be evaluated after the third (and final) annual event (April 2019), once the statistical trend analysis is complete, and a recommendation provided for path forward.

1.2 VRP Remediation Schedule

As summarized in the Semi-Annual Progress Report #11 (December 2017), Ashland has completed significant assessment and remediation activities to date. Groundwater CAP activities will continue to be conducted until such time it is appropriate to submit the Compliance Status Report (CSR). Submittal of the CSR will be dependent upon completion of corrective action activities including assessment of soil vapor and surface water. The current Remediation Schedule is presented as **Figure 1** and it has been updated to add vapor intrusion assessment activities at parcel 13242D B006Z/6.

In the *VRP Project Status Report #11* dated December 28, 2017, Ashland submitted detailed justification for an extension of the VRP timeframe through 2019. Ashland respectfully requests that the GA EPD provide formal approval of the VRP extension to ensure VRP program success at this Site.

1.3 Annual Groundwater Monitoring Event (April 2018)

The annual corrective action monitoring event was conducted on April 19, 2018. Surface water samples were collected from four locations (OF-2, SS-1, SS-2, and SS-3) within the unnamed creek located west of the Site. Depth to groundwater measurements were recorded from the entire monitoring well network; and groundwater samples were collected from 11 monitoring wells (MW-13A/B, MW-15A/B, MW-16A/B/C, MW-19B/C/D, and MW-20C). Due to denied property access, Ashland was unable to collect samples at monitoring wells MW-15C and MW-24C, located on Parcel 13242D A016. Ashland continues to pursue access at this property. A summary of the corrective action monitoring program during this reporting period is provided as **Table 1**. The monitoring well network and surface water sampling locations are provided as **Figure 2**.

Groundwater samples were collected by decanting the water directly from previously installed PDBs into laboratory supplied bottle ware. PDBs for monitoring wells MW-13A/B, MW-15A/B, and MW-16A/B were installed in June 2017 and allowed to equilibrate prior to sampling. PDBs for monitoring wells MW-16C, MW-19B/C/D, and MW-20C were installed in December 2017 and allowed to equilibrate prior



to sampling. Groundwater samples were packed on ice and submitted to TestAmerica of Savannah, Georgia under chain of custody for analysis of VOCs using USEPA method 8260B.

Annual monitoring well inspections were also performed during the April 2018 monitoring event. Each well in the network was visually inspected for integrity including surface cover and well condition. Based on the results of the inspections, no repairs are recommended at this time. The corrective action monitoring well network is presented on **Table 1** and **Figure 2**.

Surface water samples were collected from upstream to downstream in the following order: OF-2, SS-1, SS-2, and SS-3. Surface water samples were collected with a pre-cleaned, glass dip sampler and decanted directly into laboratory supplied bottle ware. The glass dip sampler was properly decontaminated between surface water sample locations via field rinsing. 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.

At the completion of the corrective action monitoring event, a new PDB sampler and dedicated weight were installed within each of the sampled monitoring wells in preparation for the semi-annual corrective action monitoring event scheduled for October 2018. Each sampler was assembled 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. PDB supplies including laboratory grade de-ionized water were obtained from EON Products, Inc. of Snellville, Georgia.

Analytical results for groundwater and surface water samples are discussed in **Section 1.4**.

1.4 Groundwater Monitoring Results

Groundwater Elevations

Depth to water measurements from the April 2018 monitoring event were used to calculate groundwater elevations across the well network. Based on elevations in the existing monitoring well network, groundwater flow within the residuum and bedrock zones continues to flow to the west toward the unnamed creek. Potentiometric surface maps depicting groundwater flow direction within the upper and lower residuum and bedrock water bearing zones are provided as **Figure 3** through **Figure 5**. Groundwater elevation data is presented in **Table 2**.

Groundwater Analytical Results

Constituents detected above their respective GA EPD Maximum Contaminant Level (MCL) during the April 2018 monitoring event included tetrachloroethene (PCE), trichloroethene (TCE), cis-1,2-dichlorothene (cis-1,2-DCE), and/or vinyl chloride (VC) in each groundwater monitoring well sampled. Overall, groundwater concentrations appear to be consistent with historical results. A tabulated summary of the groundwater analytical results, by parcel ID, is provided in **Table 3** through **Table 5**.

Surface Water Analytical Results



The April 2018 surface water analytical results were compared to both the Georgia Water Quality Standards and the USEPA Chronic Ecological Screening Levels. PCE and cis-1,2-DCE were detected above their respective Georgia Water Quality Standards at each location. The USEPA Chronic Ecological Screening Values were not exceeded during this reporting period. Surface water concentrations have decreased since the December 2017 monitoring event at all sample locations and PCE concentrations are decreasing from the upstream location SS-1 to the downstream location SS-3. A tabulated summary of analytical results between 2015 and 2018 is provided as **Table 6**.

1.5 Quality Control

Groundwater samples collected at MW-19B and MW-15A were reanalyzed one (1) day outside their laboratory holding times in order to perform analysis with dilution due to high target values of PCE. Although the April 2018 detections at these two locations were reanalyzed marginally outside their holding times, the results are within historical range for MW-15A whereas the results for MW-19B are slightly above historical range over the previous two years. Based upon the above, the April 2018 groundwater data will be used for evaluation.

Additional samples requiring dilution prior to analysis included MW-16A/B/C, MW-19C/D, and MW-20C. Reporting limits for these samples were adjusted accordingly. No other analytical or quality control issues were noted. An electronic copy of the April 2018 laboratory analytical report is provided in **Attachment A**.

2.0 Vapor Intrusion Evaluation

Further evaluation of four off-site properties (**Figure 1**) for vapor intrusion is warranted as discussed in the Groundwater CAP. A summary of the VI assessment and findings to date are presented below. Refer to **Attachment B** for a detailed discussion of VI assessment activities conducted to date.

Parcel ID	Property Name/Owner	VI Assessment Activities	Summary of VI Findings ⁽¹⁾
13242D B001	Tara Shopping Center Tara Retail Holdings LLC (subject site)	Exterior soil-gas sampling, sub-slab sampling, and indoor air sampling.	Data evaluation indicates no additional VI evaluation is warranted.
13242D A001	Flint River Shopping Center KOB Investments LLC & ETAL	Exterior soil-gas sampling.	Data evaluation indicates no additional VI evaluation is warranted.
13242D A012	Outbuilding (Bail Bonds) Aaron Amblik ETAL	Exterior soil-gas sampling.	No risks were identified at this property and no additional VI evaluation is warranted.



Parcel ID	Property Name/Owner	VI Assessment Activities	Summary of VI Findings ⁽¹⁾
13242D B006Z/6	Praxair Distribution Inc. Roger Lumsden	- Access granted in early June 2018. Initial VI activities planned for July 2018.	Results will be provided in next VRP Progress Report #13 (due 12/28/2018)

Notes:

- (1) Data evaluations were performed using the USEPA 2018 Vapor Intrusion Screening Level (VISL) Calculator and 2017 Johnson and Ettinger (J&E) modeling as detailed in **Attachment B**.

3.0 Streamlined Uniform Environmental Covenants

Ashland continues to pursue execution of SUECs at seven off-site properties as noted in the Groundwater CAP. SUEC were submitted to property owners in early 2017. Due to lack of response from property owners, Ashland has taken steps to confirm current owners via in-depth title searches. Updated SUECs, following the newer EPD format, are anticipated to be provided in July 2018.

5.0 Upcoming Work

The next semi-annual groundwater sampling event is scheduled for October 2018 and the semi-annual progress report will be submitted by December 28, 2018. This report will include the results of VI assessment activities at Parcel 13242D B006Z/6.

6.0 Professional Hours and Certification

A summary of professional hours from January 2018 to May 2018 is provided in **Attachment C** along with a professional certification of the information provided in this progress report.

Kevin Collins

Voluntary Remediation Program Semi-Annual Progress Report #12

June 28, 2018



If you have any questions regarding the information presented herein, please contact me at kris.spikes@ehs-support.com or 678-522-6050.

Sincerely,

Kris Spikes
EHS Support LLC
Project Manager

Attachments

cc: Chrissy Piechoski, Ashland LLC (email)
Rich Williams, Esq., Ashland LLC (email)
Eric Nathan, Tara Retail Holdings, Inc.
Amy Magee, King and Spalding
Jonathan Waddell, P.E. EHS Support LLC (email)
Matthew Trammell, Trammco Environmental (email)

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 m.). 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.

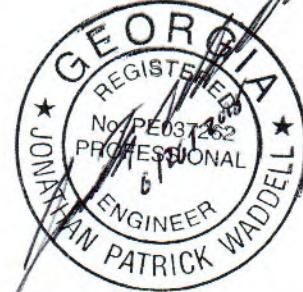
Furthermore, to document my direct oversight of the Voluntary Remediation Plan development, implementation of corrective action, and long term monitoring, I have attached a monthly summary of hours invoiced and description of services provided by me to the Voluntary Remediation Program participant since 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 , PE037262
Printed Name and GA PE/PG Number

June 26, 2018
Date

Signature and Stamp





TABLES

Table 1
Groundwater Sampling Program
Tara Shopping Center, 8564 Tara Blvd., Jonesboro, GA

HSI 10798

Well Identification	Owner/Location	Parcel Identification	Analysis	Semi-Annual Groundwater Monitoring Event (October)	Annual Groundwater Monitoring Event (April)	
MW-13A	8660 TARA BLVD Lumsden Property	13242D B006	USEPA 8260B PDB Samplers	-	X	
MW-13B				-	X	
MW-15A				-	X	
MW-15B				-	X	
MW-16A				-	X	
MW-16B				-	X	
MW-16C				X	X	
MW-15C				X ⁽¹⁾	X ⁽¹⁾	
MW-24C				X ⁽¹⁾	X ⁽¹⁾	
MW-19A	8639 TARA BLVD Flint River Shopping Center	13242D A001		-	-	
MW-19B				X	X	
MW-19C				X	X	
MW-19D				X	X	
MW-20C				X	X	
OF-2	Unnamed Creek	-		X	X	
SS-1				X	X	
SS-2				X	X	
SS-3				X	X	

Notes:

(1) Due to ongoing access negotiations between Ashland and the current site owner, these wells have been inaccessible since June 2017. Ashland is working to reestablish the access agreement. Once access is permitted, groundwater monitoring will be resumed at these wells.

PDB = Passive Diffusion Bags

Table 2 - Summary of Groundwater Elevation Data - April 9, 2018

HSI 10798

Tara Shopping Center, 8564 Tara Blvd, Jonesboro, Georgia

Well Identification	Location	Parcel Identification	Water Bearing Unit	Date Installed	Date of Last Survey	Top of Casing Elevation (ft. above MSL)	Ground Surface Elevation (ft. above MSL)	Depth to Water (ft-TOC)	Total Depth (ft-TOC)	Groundwater Elevation (ft. above MSL)
MW-3A	Site	13242D B001	Shallow	5/3/2006	7/24/2013	892.41	892.70	19.64	25.15	872.77
MW-4A	Lumsden	13242D B006	Shallow	4/28/2006	7/24/2013	884.63	884.96	12.21	25.09	872.42
MW-5A	Lumsden	13242D B006	Shallow	5/1/2006	7/24/2013	883.48	883.72	15.56	24.93	867.92
MW-5B	Lumsden	13242D B006	Intermediate	5/1/2006	7/24/2013	883.43	883.72	12.81	45.23	870.62
MW-5C	Lumsden	13242D B006	Bedrock	4/10/2008	7/24/2013	883.64	883.88	12.73	90.03	870.91
MW-7B	Site	13242D B001	Intermediate	7/26/2006	7/24/2013	896.93	897.15	26.84	32.96	870.09
MW-8A	Site	13242D B001	Shallow	7/26/2006	7/24/2013	895.14	895.27	25.30	31.75	869.84
MW-8B	Site	13242D B001	Intermediate	7/26/2006	7/24/2013	895.02	895.26	25.36	57.30	869.66
MW-8C	Site	13242D B001	Bedrock	4/10/2008	7/24/2013	895.04	895.27	30.51	85.11	864.53
MW-9A	Site	13242D B001	Shallow	7/25/2006	7/24/2013	891.65	892.20	19.73	30.27	871.92
MW-10A	Site	13242D B001	Shallow	2/19/2008	11/12/2014	896.76	897.09	26.05	37.99	870.71
MW-10B	Site	13242D B001	Intermediate	2/19/2008	11/12/2014	896.55	896.95	25.90	49.46	870.65
MW-10C	Site	13242D B001	Bedrock	4/10/2008	11/12/2014	896.65	896.99	22.08	88.08	874.57
MW-11A	Khan	13242D B001A	Shallow	2/20/2008	11/12/2014	893.90	894.24	23.47	30.11	870.43
MW-11B	Khan	13242D B001A	Intermediate	2/20/2008	11/12/2014	893.79	894.18	23.60	56.75	870.19
MW-11C	Khan	13242D B001A	Bedrock	4/10/2008	11/12/2014	894.06	894.41	24.54	87.93	869.52
MW-13A	Lumsden	13242D B006	Shallow	3/27/2008	7/24/2013	881.08	881.35	9.35	24.31	871.73
MW-13B	Lumsden	13242D B006	Intermediate	3/27/2008	7/24/2013	881.09	881.30	8.53	71.91	872.56
MW-13C	Lumsden	13242D B006	Bedrock	10/15/2008	7/24/2013	881.16	881.36	9.57	68.12	871.59
MW-14A	Site	13242D B001	Shallow	2/20/2008	7/24/2013	899.70	899.86	25.95	35.80	873.75
MW-15A	ROW	-	Shallow	9/18/2008	7/24/2013	888.05	888.30	19.80	37.60	868.25
MW-15B	ROW	-	Intermediate	9/19/2008	7/24/2013	888.09	888.30	19.91	47.72	868.18
MW-15C	CB Mgmt	13242D A016	Bedrock	6/11/2015	7/16/2015	890.47	890.73	NR	NR	NR
MW-16A	ROW	-	Shallow	9/18/2008	7/24/2013	879.48	879.90	11.71	32.55	867.77
MW-16B	ROW	-	Intermediate	9/19/2008	7/24/2013	879.65	879.90	11.79	43.41	867.86
MW-16C	ROW	-	Bedrock	10/14/2008	7/24/2013	878.84	878.97	13.86	67.90	864.98
MW-18A	Al Karim	13242D B007	Shallow	11/27/2012	7/24/2013	888.29	888.63	17.58	30.14	870.71
MW-18B	Al Karim	13242D B007	Intermediate	11/27/2012	7/24/2013	888.23	888.60	17.68	56.59	870.55
MW-19A	FRSC	13242D A001	Shallow	12/5/2012	7/24/2013	879.94	880.10	13.29	34.20	866.65
MW-19B	FRSC	13242D A001	Intermediate	12/5/2012	7/24/2013	880.17	880.32	13.33	60.14	866.84
MW-19C	FRSC	13242D A001	Bedrock	12/4/2012	7/24/2013	880.01	880.21	13.01	84.70	867.00
MW-19D	FRSC	13242D A001	Bedrock	9/2/2014	11/12/2014	880.08	880.35	13.93	105.46	866.15
MW-20C	FRSC	13242D A001	Bedrock	12/4/2012	7/24/2013	875.44	875.75	18.24	44.89	857.20
MW-21B	FRSC	13242D A001	Intermediate	8/29/2014	11/12/2014	871.40	871.74	13.45	39.56	857.95
MW-21C	FRSC	13242D A001	Bedrock	8/29/2014	11/12/2014	871.41	871.76	13.74	74.73	857.67
MW-24C	CB Mgmt	13242D A016	Bedrock	6/10/2015	7/16/2015	884.57	884.57	NR	NR	NR
STREAM GAUGE (SG)	Creek		Surface Water	7/24/2013	7/24/2013	854.74	NR	NR	NR	NR

Notes:

(ft. bgs) = feet below ground surface

(ft) = feet

(ft-TOC) = feet below top of inner PVC casing

(ft. above MSL) = feet above mean sea level

NR = Not recorded

Table 3 - Groundwater Analytical Results from Monitoring Wells

Lumsden Properties LLC
8660 Tara Blvd., Jonesboro, GA
13242D B006 and B006Z

HSI 10798

Well Sample ID	Georgia MCLs for Drinking Water µg/L	MW-13A								MW-13B												
		3/27/2008				3/27/2008																
Screen Interval (feet below grade)								62-72														
Water Bearing Unit								Lower Residuum														
Lab Sample Number		680-34822-18	NA	680-50212-10	680-68710-5	680-90201-12	680-114574-16	680-140434-2	680-151360-1	680-34822-17	NA	680-50212-9	680-68710-6	680-90177-11	680-114574-5	680-140434-1	680-151360-2					
Sampling Date		3/6/2008	10/21/2008	8/24/2009	5/23/2011	5/9/2013	7/15/2015	6/26/2017	4/19/2018	3/6/2008	10/21/2008	8/24/2009	5/23/2011	5/8/2013	7/14/2015	6/26/2017	4/19/2018					
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water					
Dilution Factor		20	--	20	25	1	1	1	1	1	--	1	1	1	1	1	1					
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L					
Sample Method		LFPS	LFPS	LFPS	LFPS	LFPS	PDB	PDB	LFPS	LFPS	LFPS	LFPS	LFPS	LFPS	PDB	PDB	PDB					
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low					
VOC Constituents of Concern																						
Tetrachloroethene	5	1400	1000	1200	1200	17	750 D	25	31	17	4.1	14	20	27	290 D	53	130					
Trichloroethene	5	640	500	840	800	29	730 D	37	47	2.2	1 U	5.4	5.5	4.1	130	12	22					
cis-1,2-Dichloroethene	70	1300	1300	2300	2300	120	2000 D	60	110	9.1	3.1	12	21	16	130	64	140					
Vinyl chloride	2	31	NA	79	71	9.2	180	12	11	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Other VOC Compounds																						
1,1,1-Trichloroethane	200	20 U	NA	20 U	25 U	1 U	1 U	1	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
1,1,2,2-Tetrachloroethane	0.2	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
1,1,2-Trichloroethane	5	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	1 U	NA	1 U	1 U	1 U	5 U	1 U	1 U					
1,1-Dichloroethane	400	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
1,1-Dichloroethene	7	20 U	NA	20 U	25 U	1 U	3.4	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
1,2-Dichloroethane	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
1,2-Dichloropropane	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
2-Butanone (MEK)	200	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	10 U	NA	10 U	10 U	10 U	25 U	10 U	10 U					
2-Hexanone	NP	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	10 U	NA	10 U	10 U	10 U	25 U	10 U	10 U					
4-Methyl-2-pentanone (MIBK)	200	200 U	NA	200 U	250 U	10 U	10 U	25 U	10 U	10 U	NA	10 U	10 U	10 U	25 U	10 U	10 U					
Acetone	400	500 U	NA	500 U	620 U	25 U	25	25 U	10 U	25 U	NA	25 U	25 U	25 U	10 U	25 U	10 U					
Benzene	5	20 U	NA	20 U	32	33	17	2.5 U	3.3	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Bromoform	80	20 U	NA	20 U	25 U	1 U	1 U	5	1 U	NA	1 U	1 U	1 U	1 U	5 U	1 U	1 U					
Bromomethane	NP	20 U	NA	20 U	25 U	5 U	5 U	1 U	5 U	1 U	NA	1 U	1 U	5 U	5 U	1 F1	5 U					
Carbon disulfide	400	40 U	NA	40 U	50 U	2 U	2 U	1 U	2 U	2 U	NA	2 U	2 U	2 U	2 U	1 U	2 U					
Carbon tetrachloride	5	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Chlorobenzene	100	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Chlorodibromomethane	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Chloroethane	NP	20 U	NA	20 U	25 U	5 U	5 U	1 U	5 U	1 U	NA	1 U	1 U	5 U	5 U	1 U	5 U					
Chloroform	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Chloromethane	NP	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
cis-1,3-Dichloropropene	NP	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	1 U	NA	1 U	1 U	1 U	5 U	1 U	1 U					
Dichlorobromomethane	80	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Ethylbenzene	700	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Methylene Chloride	3	100 U	NA	100 U	120 U	5 U	5 U	5 U	5 U	5 U	NA	5 U	5 U	5 U	5 U	5 U	5 U					
Styrene	100	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
Toluene	1,000	20 U	NA	20 U	25 U	1 U	1 U	1 U	1 U	1 U	NA	1 U	1 U	1 U	1 U	1 U	1 U					
trans-1,2-Dichloroethene	100	20 U	NA	20 U	25 U	1 U	13	1 U	1.6	1 U	NA	1 U	1 U	1 U	1.4	1 U	1.6					
trans-1,3-Dichloropropene	NP	20 U	NA	20 U	25 U	1 U	1 U	5 U	1 U	1 U	NA	1 U	1 U	1 U	5 U	1 U	1 U					
Xylenes, Total	10,000	40 U	NA	40 U	50 U	2 U	1 U	10 U	1 U	2 U	NA	2 U	2 U	2 U	1 U	10 U	1 U					
Total VOCs		3371	2800	4419	4403	208.2	3718.4	136.5	203.9	28.3	7.2	31.4	46.5	47.1	553.3	129	293.6					

Monitoring Well MW-13C is not included in Corrective Action monitoring program; therefore, historic data is not shown.

QUALIFIERS

Where Georgia Maximum Contaminant Level (MCL) is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-18 Primary MCL for Drinking Water May 18, 2018

Table 4 - Groundwater Analytical Results from Monitoring Wells
State Right of Way, Jonesboro, GA

HSI 10798

Well Sample ID		MW-15A						MW-15B					
		9/18/08			27.5-37.5			38.5-48.5			Lower Residuum		
Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	Upper Residuum						Lower Residuum						
	680-68627-2	680-68627-2	680-90177-14	680-114574-13	680-140434-10	680-151360-10	680-68627-1	680-90177-15	680-114574-14	680-140434-11	680-140434-12	680-151360-11	
	5/20/2011	5/20/2011	5/8/2013	7/15/2015	6/26/2017	4/19/2018	5/20/2011	5/8/2013	7/15/2015	6/26/2017	6/26/2017	4/19/2018	
	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	
	100	5	5	2	1	1	1	1	1	1	1	1	
	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
	LFPS	LFPS	LFPS	PDB	PDB	LFPS	LFPS	LFPS	PDB	DUP-1	PDB		
	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	
	GC/MS VOA - 8260B												
	VOC Constituents of Concern												
Tetrachloroethene	5	350	370 H	460	320	270	350 H	98	110	72	73	71	160
Trichloroethene	5	100 U	70 H	73	87	72	51	4.5	3.4	3.1	2.2	2.1	2.4
cis-1,2-Dichloroethene	70	100 U	17 H	11	19	15	17	1.1	1 U	1 U	1 U	1 U	1 U
Vinyl chloride	2	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Other VOC Compounds													
1,1,1-Trichloroethane	200	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2,2-Tetrachloroethane	0.2	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	5	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U
1,1-Dichloroethane	400	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethene	7	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloroethane	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichloropropane	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Butanone (MEK)	200	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	10 U	25 U	25 U	10 U
2-Hexanone	NP	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	10 U	25 U	25 U	10 U
4-Methyl-2-pentanone (MIBK)	200	1000 U	50 U	50 U	20 U	25 U	10 U	10 U	10 U	10 U	25 U	25 U	10 U
Acetone	400	2500 U	120 U	130 U	20 U	25 U	10 U	25 U	25 U	10 U	25 U	25 U	10 U
Benzene	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	80	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U
Bromomethane	NP	100 U	5 U	25 U	10 U	1 U	5 U	1 U	5 U	5 U	1 U	1 U	5 U
Carbon disulfide	400	200 U	10 U	10 U	4 U	1 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U
Carbon tetrachloride	5	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	100	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorodibromomethane	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloroethane	NP	100 U	5 U	25 U	10 U	1 U	5 U	1 U	5 U	5 U	1 U	1 U	5 U
Chloroform	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chloromethane	NP	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
cis-1,3-Dichloropropene	NP	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U
Dichlorobromomethane	80	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	700	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	3	500 U	25 U	25 U	10 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Styrene	100	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Toluene	1,000	100 U	5 U	5 U	2 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,2-Dichloroethene	100	100 U	5 U	5 U	2 U	1 U	1.5	1 U	1 U	1 U	1 U	1 U	1 U
trans-1,3-Dichloropropene	NP	100 U	5 U	5 U	2 U	5 U	1 U	1 U	1 U	1 U	5 U	5 U	1 U
Xylenes, Total	10,000	200 U	10 U	10 U	2 U	10 U	1 U	2 U	2 U	1 U	10 U	10 U	1 U
Total VOCs		350	457	544	426	357	351.5	103.6	113.4	75.1	75.2	73.1	162.4

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water - May 18, 2018

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria - May 18, 2018

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

µg/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 4 - Groundwater Analytical Results from Monitoring Wells
State Right of Way, Jonesboro, GA

HSI 10798

Well Sample ID	Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-16A						MW-16B						
		9/18/08 22-32						9/19/08 34-44						
Upper Residuum						Lower Residuum								
Lab Sample Number		680-68710-4	680-90201-13	680-114574-18	680-140434-8	680-140434-14	680-151360-8	680-68710-3	680-90201-14	680-114574-19	680-140434-6	680-140434-15	680-151360-6	
Sampling Date		5/23/2011	5/9/2013	7/15/2015	6/26/2017	6/27/2017	4/19/2018	5/23/2011	5/9/2013	7/15/2015	6/26/2017	6/27/2017	4/19/2018	
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	
Dilution Factor		10	5	1	5	5	5	10	10	1	5	5	5	
Units		µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Sample Method		LFPS	LFPS	PDB	LFPS	PDB	LFPS	LFPS	LFPS	PDB	LFPS	PDB	PDB	
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	
VOC Constituents of Concern														
Tetrachloroethene	5	930	300	400 D	1000	1000	450	1200	1000	980 D	710	940	470	
Trichloroethene	5	110	43	49	140	150	54	100	68	92	78	110	43	
cis-1,2-Dichloroethene	70	200	55	93	240	260	130	210	120	190	160	260	120	
Vinyl chloride	2	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Other VOC Compounds														
1,1,1-Trichloroethane	200	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
1,1,2,2-Tetrachloroethane	0.2	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
1,1,2-Trichloroethane	5	10 U	5 U	1 U	25 U	25 U	5 U	10 U	10 U	1 U	25 U	25 U	5 U	
1,1-Dichloroethane	400	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
1,1-Dichloroethene	7	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
1,2-Dichloroethane	5	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
1,2-Dichloropropane	5	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
2-Butanone (MEK)	200	100 U	50 U	10 U	130 U	130 U	50 U	100 U	100 U	10 U	130 U	130 U	50 U	
2-Hexanone	NP	100 U	50 U	10 U	130 U	130 U	50 U	100 U	100 U	10 U	130 U	130 U	50 U	
4-Methyl-2-pentanone (MIBK)	200	100 U	50 U	10 U	130 U	130 U	50 U	100 U	100 U	10 U	130 U	130 U	50 U	
Acetone	400	250 U	130 U	10 U	130 U	130 U	50 U	250 U	250 U	10 U	130 U	130 U	50 U	
Benzene	5	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Bromoform	80	10 U	5 U	1 U	25 U	25 U	5 U	10 U	10 U	1 U	25 U	25 U	5 U	
Bromomethane	NP	10 U	25 U	5 U	5 U	5 U	25 U	10 U	50 U	5 U	5 U	5 U	25 U	
Carbon disulfide	400	20 U	10 U	2 U	5 U	5 U	5 U	20 U	20 U	2 U	5 U	5 U	10 U	
Carbon tetrachloride	5	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Chlorobenzene	100	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Chlorodibromomethane	80	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Chloroethane	NP	10 U	25 U	5 U	5 U	5 U	25 U	10 U	50 U	5 U	5 U	5 U	25 U	
Chloroform	80	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Chloromethane	NP	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
cis-1,3-Dichloropropene	NP	10 U	5 U	1 U	25 U	25 U	5 U	10 U	10 U	1 U	25 U	25 U	5 U	
Dichlorobromomethane	80	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Ethylbenzene	700	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Methylene Chloride	3	50 U	25 U	5 U	25 U	25 U	25 U	50 U	50 U	5 U	25 U	25 U	25 U	
Styrene	100	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
Toluene	1,000	10 U	5 U	1 U	5 U	5 U	5 U	10 U	10 U	1 U	5 U	5 U	5 U	
trans-1,2-Dichloroethene	100	10 U	5 U	2.8	5 U	5 U	5 U	10 U	10 U	17	5 U	5.9	5 U	
trans-1,3-Dichloropropene	NP	10 U	5 U	1 U	25 U	25 U	5 U	10 U	10 U	1 U	25 U	25 U	5 U	
Xylenes, Total	10,000	20 U	10 U	1 U	50 U	50 U	5 U	20 U	20 U	1 U	50 U	50 U	5 U	
Total VOCs		1240	398	544.8	1380	1410	634	1510	1188	1279	948	1315.9	633	

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water - May 18, 2018

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria - May 18, 2018

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

µg/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 4 - Groundwater Analytical Results from Monitoring Wells
State Right of Way, Jonesboro, GA

HSI 10798

Well Sample ID		Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-16C						
Installation Date			39735						
Screen Interval (feet below grade)			58-68						
Water Bearing Unit			Bedrock						
Lab Sample Number			680-68627-3	680-90201-15	680-114574-20	680-133511-3	680-140434-7	680-146532-1	
Sampling Date			5/20/2011	5/9/2013	7/15/2015	12/19/2016	6/26/2017	12/5/2017	
Matrix			Water	Water	Water	Water	Water	Water	
Dilution Factor			5	5	1	10	5	5	
Units			µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	
Sample Method			LFPS	LFPS	LFPS	LFPS	PDB	PDB	
GC/MS VOA - 8260B			Low	Low	Low	Low	Low	Low	
VOC Constituents of Concern									
Tetrachloroethene	5	780	840	820 D	800	800	780	820	
Trichloroethene	5	61	58	72	80	86	100	74	
cis-1,2-Dichloroethene	70	62	72	110	130	120	200	150	
Vinyl chloride	2	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Other VOC Compounds									
1,1,1-Trichloroethane	200	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
1,1,2-Trichloroethane	5	5 U	5 U	1 U	10 U	25 U	5 U	5 U	
1,1-Dichloroethane	400	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
1,1-Dichloroethene	7	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
1,2-Dichloroethane	5	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
1,2-Dichloropropane	5	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
2-Butanone (MEK)	200	50 U	50 U	10 U	100 U	130 U	50 U	50 U	
2-Hexanone	NP	50 U	50 U	10 U	100 U	130 U	50 U	50 U	
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	10 U	100 U	130 U	50 U	50 U	
Acetone	400	120 U	130 U	10 U	100 U	130 U	50 U	50 U	
Benzene	5	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Bromoform	80	5 U	5 U	1 U	10 U	25 U	5 U	5 U	
Bromomethane	NP	5 U	25 U	5 U	50 U	5 U	25 U	25 U	
Carbon disulfide	400	10 U	10 U	2 U	20 U	5 U	10 U	10 U	
Carbon tetrachloride	5	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Chlorobenzene	100	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Chlorodibromomethane	80	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Chloroethane	NP	5 U	25 U	5 U	50 U	5 U	25 U	25 U	
Chloroform	80	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Chloromethane	NP	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
cis-1,3-Dichloropropene	NP	5 U	5 U	1 U	10 U	25 U	5 U	5 U	
Dichlorobromomethane	80	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Ethylbenzene	700	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Methylene Chloride	3	25 U	25 U	5 U	50 U	25 U	25 U	25 U	
Styrene	100	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
Toluene	1,000	5 U	5 U	1 U	10 U	5 U	5 U	5 U	
trans-1,2-Dichloroethene	100	5 U	5 U	2	10 U	5 U	5 U	5 U	
trans-1,3-Dichloropropene	NP	5 U	5 U	1 U	10 U	25 U	5 U	5 U	
Xylenes, Total	10,000	10 U	10 U	1 U	10 U	50 U	5 U	5 U	
Total VOCs		903	970	1004	1010	1006	300	1044	

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-18 Primary MCL for Drinking Water - May 18, 2018

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria - May 18, 2018

D - sample diluted in the lab

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

µg/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

Table 5 - Groundwater Analytical Results from Monitoring Wells
 Flint River Shopping Center
 8650 Tara Blvd., Jonesboro, GA
 13424D A001

HSI 10798

Well Sample ID	Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-19B								MW-19C								
		12/05/2012				50-60				12/4/2012				75-85				
Lower Residuum								Bedrock										
Lab Sample Number		680-90099-8	680-107535-9	680-114574-10	680-133511-11	680-140434-5	680-146532-2	680-146532-9	680-151360-5	680-90177-16	680-107535-8	680-114574-9	680-133511-8	680-140434-4	680-146532-3	680-151360-4		
Sampling Date		5/7/2013	11/19/2014	7/14/2015	12/19/2016	06/26/2017	12/5/2017	12/5/2017	4/19/2018	5/8/2013	11/19/2014	7/14/2015	12/19/2016	06/26/2017	12/5/2017	4/19/2018		
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	
Dilution Factor		5	5	1	5	1	1	1	1	2	1	1	1	1	1	5		
Units		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	
Sample Method		LFPS	LFPS	LFPS	PDB	PDB	PDB	PDB	LFPS	LFPS	PDB	PDB	PDB	PDB	PDB	PDB	PDB	
GC/MS VOA - 8260B		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	
VOC Constituents of Concern																		
Tetrachloroethene	5	370	870	370 D	180	150	130	120	220 H	150	290	200	190	220	380	360		
Trichloroethene	5	27	67	34	45	19	17	15	21	7.2	18	18	24	31	39	36		
cis-1,2-Dichloroethene	70	44	100	47	110	33	39	37	47	14	33	32	51	44	70	72		
Vinyl chloride	2	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2.0 U	1 U	1 U	1 U	1 U	5 U		
Other VOC Compounds																		
1,1,1-Trichloroethane	200	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
1,1,2,2-Tetrachloroethane	0.2	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
1,1,2-Trichloroethane	5	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	5 U	1 U	5 U		
1,1-Dichloroethane	400	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
1,1-Dichloroethene	7	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
1,2-Dichloroethane	5	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
1,2-Dichloropropane	5	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
2-Butanone (MEK)	200	50 U	50 U	10 U	50 U	25 U	10 U	10 U	10 U	72	20 U	10 U	10 U	25 U	10 U	50 U		
2-Hexanone	NP	50 U	50 U	10 U	50 U	25 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	25 U	10 U	50 U		
4-Methyl-2-pentanone (MIBK)	200	50 U	50 U	10 U	50 U	25 U	10 U	10 U	10 U	10 U	20 U	10 U	10 U	25 U	10 U	50 U		
Acetone	400	130 U	50 U	10 U	50 U	25 U	10 U	10 U	10 U	25 U	20 U	10 U	10 U	25 U	16	50 U		
Benzene	5	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Bromoform	80	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	5 U	1 U	5 U		
Bromomethane	NP	25 U	25 U	5 U	25 U	1 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	1 U	5 U	25 U		
Carbon disulfide	400	10 U	10 U	2 U	10 U	1 U	2 U	2 U	2 U	2 U	4 U	2 U	2 U	1 U	2 U	10 U		
Carbon tetrachloride	5	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Chlorobenzene	100	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Chlorodibromomethane	80	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Chloroethane	NP	25 U	25 U	5 U	25 U	1 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	1 U	5 U	25 U		
Chloroform	80	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	5	2 U	1 U	1 U	1 U	1 U	5 U		
Chloromethane	NP	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
cis-1,3-Dichloropropene	NP	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	5 U	1 U	5 U		
Dichlorobromomethane	80	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Ethylbenzene	700	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Methylene Chloride	3	25 U	25 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	10 U	5 U	5 U	5 U	5 U	25 U		
Styrene	100	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
Toluene	1,000	5 U	5 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	1 U	1 U	5 U		
trans-1,2-Dichloroethene	100	5 U	5 U	1	5 U	1 U	1 U	1 U	1 U	1 U	2 U	1.2	1 U	1 U	1 U	5 U		
trans-1,3-Dichloropropene	NP	5 U	5 U	1 U	5 U	5 U	1 U	1 U	1 U	1 U	2 U	1 U	1 U	5 U	1 U	5 U		
Xylenes, Total	10,000	10 U	10 U	1 U	5 U	10 U	1 U	1 U	1 U	2 U	4 U	1 U	1 U	10 U	1 U	5 U		
Total VOCs		441	1037	452	335	202	186	172	288	248	341	251	265	295	489	468		

Monitoring Well MW-19A is not including in Corrective Action monitoring program; therefore, historic data is not shown.

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-5-.18 Primary MCL for Drinking Water - May 18, 2018

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria - May 18, 2018

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile

Table 5 - Groundwater Analytical Results from Monitoring Wells
 Flint River Shopping Center
 8650 Tara Blvd., Jonesboro, GA
 13424D A001

HSI 10798

Well Sample ID Installation Date Screen Interval (feet below grade) Water Bearing Unit Lab Sample Number Sampling Date Matrix Dilution Factor Units Sample Method GC/MS VOA - 8260B	Georgia Maximum Contaminant Levels (MCLs) for Drinking Water µg/L	MW-19D						MW-20C					
		9/2/2014 95.5-105.5 Bedrock						12/4/2012 35-45 Bedrock					
		680-107535-7	680-114574-11	680-133511-9	680-140434-3	680-146532-4	680-151360-3	680-90201-17	680-114236-6	680-133511-4	680-140434-9	680-146532-5	680-151360-9
		11/19/2014	7/14/2015	12/19/2016	06/26/2017	12/5/2017	4/19/2018	5/9/2013	7/2/2015	12/19/2016	06/26/2017	12/5/2017	4/19/2018
		Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water
		1	1	1	2	1	5	1	1	1	1	1	2
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
		LFPS	LFPS	PDB	PDB	PDB	PDB	LFPS	LFPS	PDB	PDB	PDB	PDB
		Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low	Low
		VOC Constituents of Concern											
Tetrachloroethene	5	94	12	190 H	310	290	76	18	53	100	250	170	120
Trichloroethene	5	7.1	1.2	31	30	28	15	1.1	5	31	29	23	14
cis-1,2-Dichloroethene	70	13	1.9	66	51	61	100	1.4	4.9	43	25	26	21
Vinyl chloride	2	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
Other VOC Compounds													
1,1,1-Trichloroethane	200	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
1,1,2-Tetrachloroethane	0.2	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
1,1,2-Trichloroethane	5	1 U	1 U	1 U	10 U	1 U	5 U	1 U	1 U	1 U	5 U	1 U	2 U
1,1-Dichloroethane	400	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
1,1-Dichloroethene	7	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
1,2-Dichloroethane	5	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
1,2-Dichloropropane	5	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
2-Butanone (MEK)	200	10 U	10 U	10 U	50 U	10 U	50 U	10 U	10 U	10 U	25 U	10 U	20 U
2-Hexanone	NP	10 U	10 U	10 U	10 U	50 U	10 U	50 U	10 U	10 U	25 U	10 U	20 U
4-Methyl-2-pentanone (MIBK)	200	10 U	10 U	10 U	10 U	50 U	10 U	50 U	10 U	10 U	25 U	10 U	20 U
Acetone	400	10 U	10 U	10 U	10 U	50 U	10 U	50 U	25 U	10 U	25 U	10 U	20 U
Benzene	5	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
Bromoform	80	1 U	1 U	1 U	10 U	1 U	5 U	1 U	1 U	1 U	5 U	1 U	2 U
Bromomethane	NP	5 U	5 U	5 U	2 U	5 U	25 U	5 U	5 U	5 U	1 U	5 U	10 U
Carbon disulfide	400	2 U	2 U	2 U	2 U	2 U	10 U	2 U	2 U	2 U	1 U	2 U	4 U
Carbon tetrachloride	5	1 U	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	2 U
Chlorobenzene	100	1 U	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	2 U
Chlorodibromomethane	80	1 U	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	2 U
Chloroethane	NP	5 U	5 U	5 U	2 U	5 U	25 U	5 U	5 U	5 U	1 U	5 U	10 U
Chloroform	80	11	1 U	1 U	2 U	1 U	5 U	1.1	1 U	1 U	1 U	1 U	2 U
Chloromethane	NP	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
cis-1,3-Dichloropropene	NP	1 U	1 U	1 U	10 U	1 U	5 U	1 U	1 U	1 U	5 U	1 U	2 U
Dichlorobromomethane	80	1 U	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	2 U
Ethylbenzene	700	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
Methylene Chloride	3	5 U	5 U	5 U	10 U	5 U	25 U	5 U	5 U	5 U	5 U	5 U	10 U
Styrene	100	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
Toluene	1,000	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
trans-1,2-Dichloroethene	100	1 U	1 U	1 U	2 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	2 U
trans-1,3-Dichloropropene	NP	1 U	1 U	1 U	10 U	1 U	5 U	1 U	1 U	1 U	5 U	1 U	2 U
Xylenes, Total	10,000	2 U	1 U	1 U	20 U	1 U	5 U	2 U	1 U	10 U	1 U	1 U	2 U
Total VOCs		125	15	287	391	379	191	21	63	174	304	219	155

Monitoring Well MW-19A is not including in Corrective Action monitoring program; therefore, historic data is not shown.

QUALIFIERS

Where Georgia MCL is lower than the Groundwater Criterion, the MCL take precedence, therefore the MCL is listed above.

GA EPD Rule 391-3-.18 Primary MCL for Drinking Water - May 18, 2018

GA EPD Rule 391-3-19 Appendix III - Media Target Concentrations and Standard Exposure Assumptions, Table 1 - Groundwater Criteria - May 18, 2018

GC/MS - Gas chromatography/ mass spectrometry

H - Hold time issue noted by laboratory

LFPS - Low Flow Purging and Sampling

NP - Not published

PDB - Passive Diffusion Bag

U - value not detected above the laboratory reporting limit.

ug/L - micrograms per liter

VOC - Volatile organic compounds

Yellow - exceeds Georgia Maximum Contaminant Levels for Drinking Water

**Table 6 - Surface Water Analytical Results from Unnamed Creek
Groundwater Corrective Action Plan
Jonesboro, GA**

Sample ID	Georgia Water Quality Standards 2015	Ecological Screening Values USEPA Region 4 Surface Water Screening Values for Hazardous Waste Sites	OF-2						SS-1						SS-2						SS-3							
Sample Location			Storm water Outfall										Stream Sample (~85 feet from OF-2)						Stream Sample (~170 feet from SS-1)						Stream Sample (~550 feet from SS-2)			
Lab Sample Number			680-114593-2	680-133594-2	680-140434-16*	680-146532-11	680-151360-14*	680-114593-3	680-133594-1	680-140434-17	680-146532-6	680-151360-15	680-151360-12	680-114593-4	680-133511-5	680-140434-18	680-146532-7	680-151360-16	680-133511-10	680-140434-19	680-146532-8	680-151360-17						
Sampling Date			7/16/2015	12/19/2016	6/27/2017	12/5/2017	4/19/2018	7/16/2015	12/19/2016	6/27/2017	12/5/2017	4/19/2018	4/19/2018	7/16/2015	12/19/2016	6/27/2017	12/7/2017	4/19/2018	12/19/2016	6/27/2017	12/5/2017	4/19/2018						
Matrix			Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water	Water			
Dilution Factor			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
Units			µg/L	µg/L	ug/L	ug/L	µg/L	µg/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L			
Sample Method			Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab	Grab			
GC/MS VOA - 8260B																												
VOC Constituents of Concern																												
Tetrachloroethene	3.3	53	430	76	27	94	60	5.5	36	82	46	51	47	46	17	14	34	67	32	34	17	36	25					
Trichloroethene	30	200	2,000	12	4.7	14	9.0	1.6	2.7	7.7	5.7	4.4	3.3	3.1	1 U	1.5	2.9	3.8	2.2	3.2	1.8	2.7	2.1					
cis-1,2-Dichloroethene	1	620	5,500	5.9	3	8.0	7.4	2.0	2.3	9.6	5.4	4.7	3.0	2.9	1 U	1.4	2.4	3.5	2.0	3.7	1.4	2.7	2.5					
Vinyl chloride	2.4	930	8,400	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
Other VOC Compounds																												
1,1,1-Trichloroethane	NA	76	690	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
1,1,2,2-Tetrachloroethane	4.0	200	910	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	5 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 U	1 U	1 U	1 U	1 U	1 U	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 U	1 U	1 U	1 U	1 U	1 U	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 U	1 U	1 U	2.2	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	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	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U			
2-Hexanone	NA	99	1,800	10 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U			
4-Methyl-2-pentanone (MIBK)	NA	170	2,200	10 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U			
Acetone	NA	1,700	15,000	10 U	10 U	25 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	10 U	10 U	25 U	10 U	10 U	25 U	10 U	10 U	10 U			
Benzene	51	160	700	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	1 U			
Bromomethane	1,500	16	38	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	2 U	2 U	2 U	2 U	2 U	2 U	2 U	1 U	2 U	2 U	2 U	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	1 U	1 U	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	1,600	25	220	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U			
Chloroethane	NA	NA	NA	5 U	5 U	1 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	21	1.7	15	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U			
Dichlorobromomethane	17	340	3,100	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	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	590	1,500	8,500	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	5 U	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	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	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	1 U	1 U	1 U	1 U	1 U	1 U	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	5 U	1 U	1 U	1 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	1 U	1 U	5 U	1 U	1 U	5 U	1 U	1 U	5 U			
Xylenes, Total	NA	27	240	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	1 U	1 U	10 U	1 U	1 U	10 U	1 U	1 U	10 U			
Total VOCs				93.9	34.7	116	76.4	9.1	41	99.3	57.1	62.3	53.3	52	17	16.9	39.3	74.3	36.2	40.9	20.2	41.4	29.6					

QUALIFIERS

NA
μg/L

Not Available

micrograms per liter

Gas Chromatography/Mass Spec Volatile Organic Analysis USEPA Method 8260B

Value not detected above the laboratory reporting limit

Exo

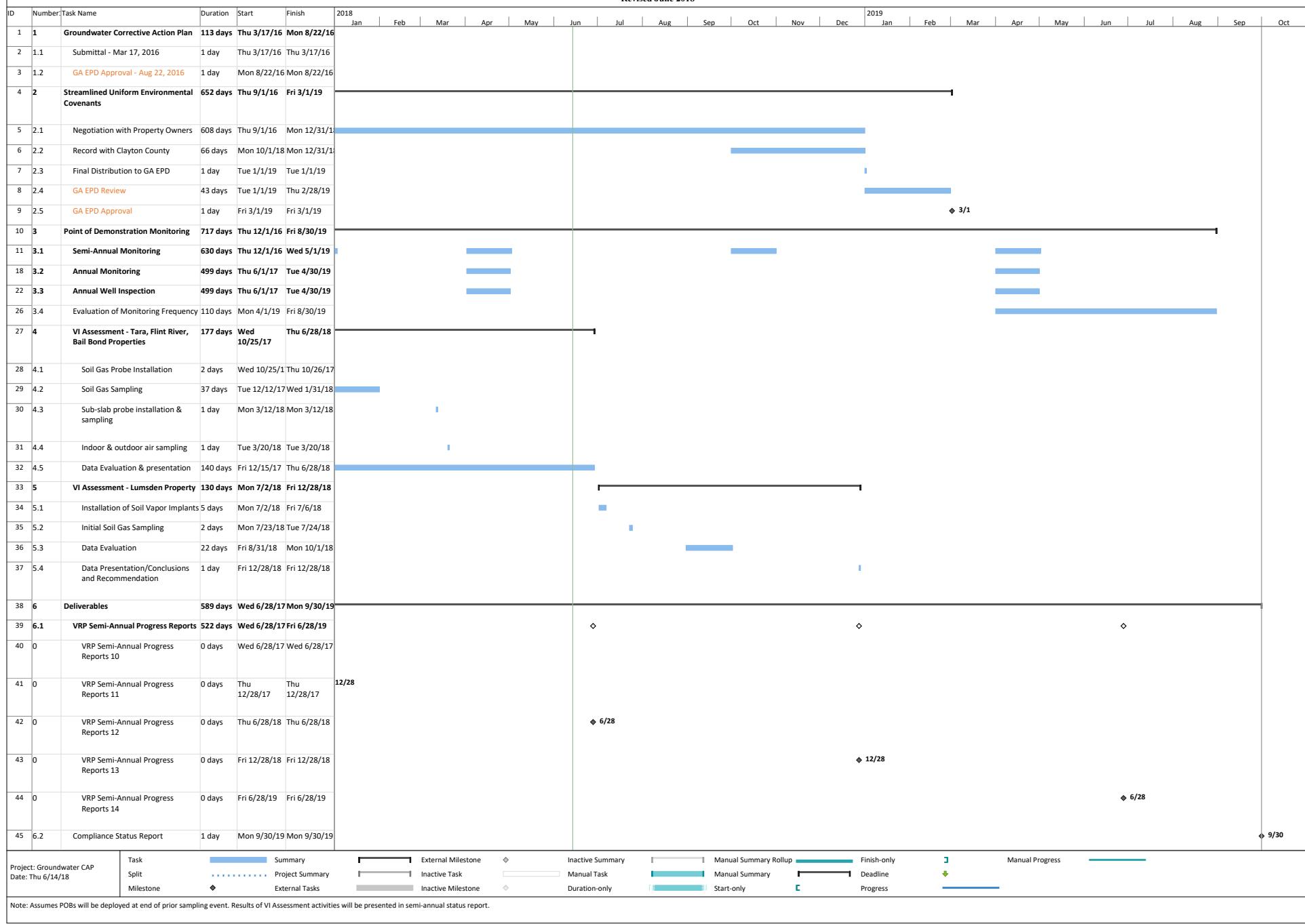
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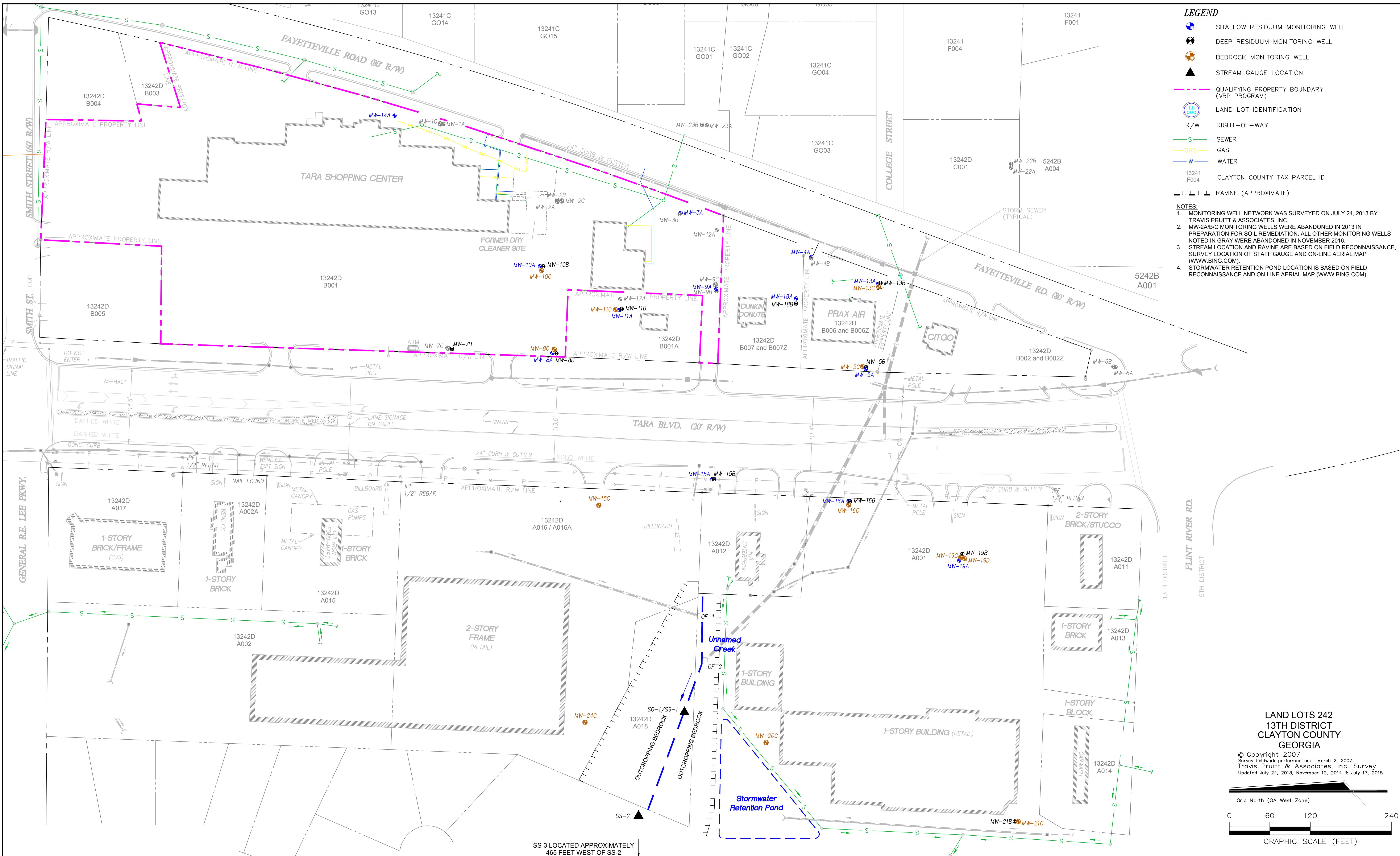
* Sample was inadvertently identified as OF-1, but was collected at OF-2



FIGURES

Figure 2
Tara Shopping Center/ Alterman Enterprises (HSI 10798)
Remediation Schedule
Corrective Action Plan Implementation
Revised June 2018





Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []
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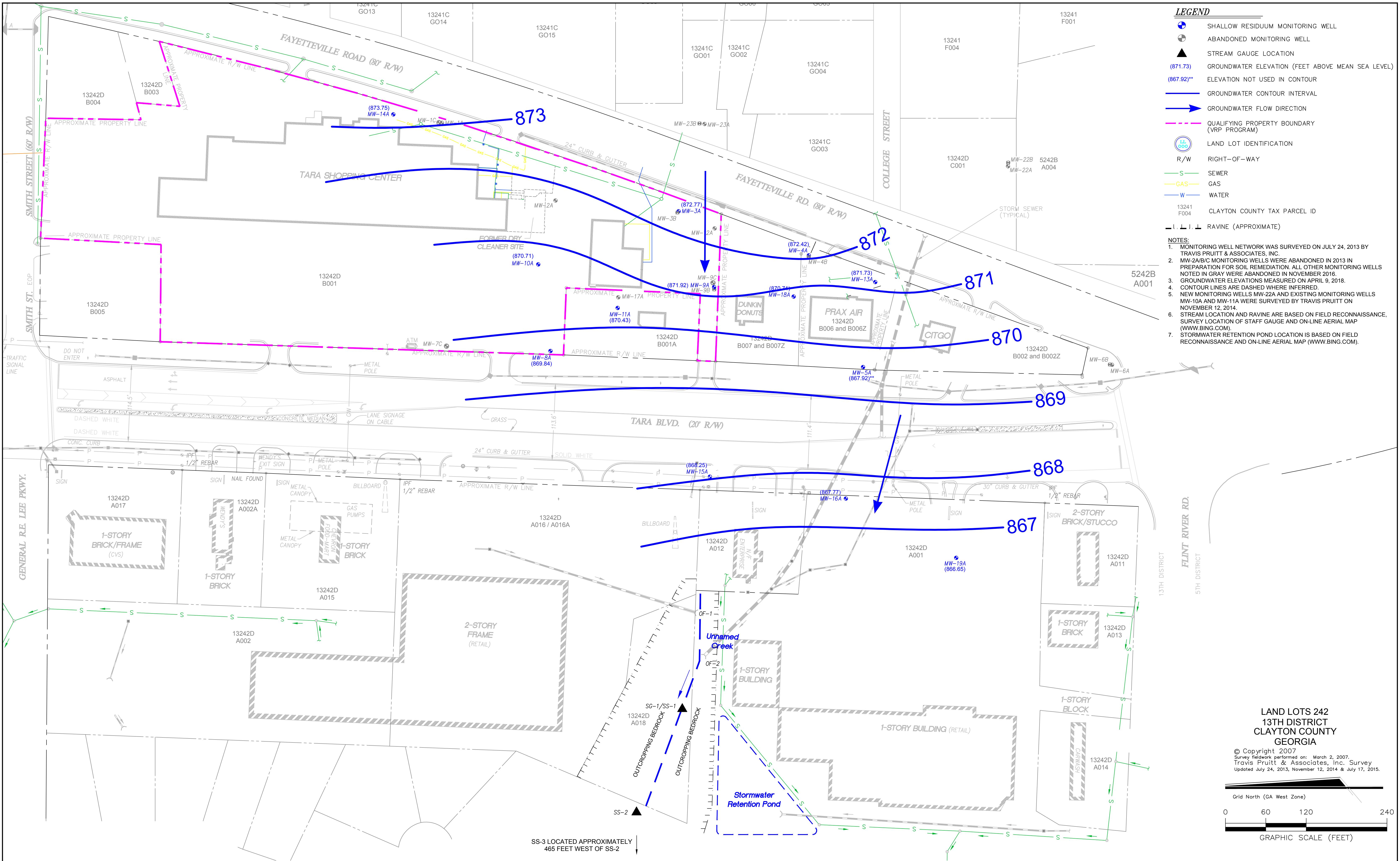
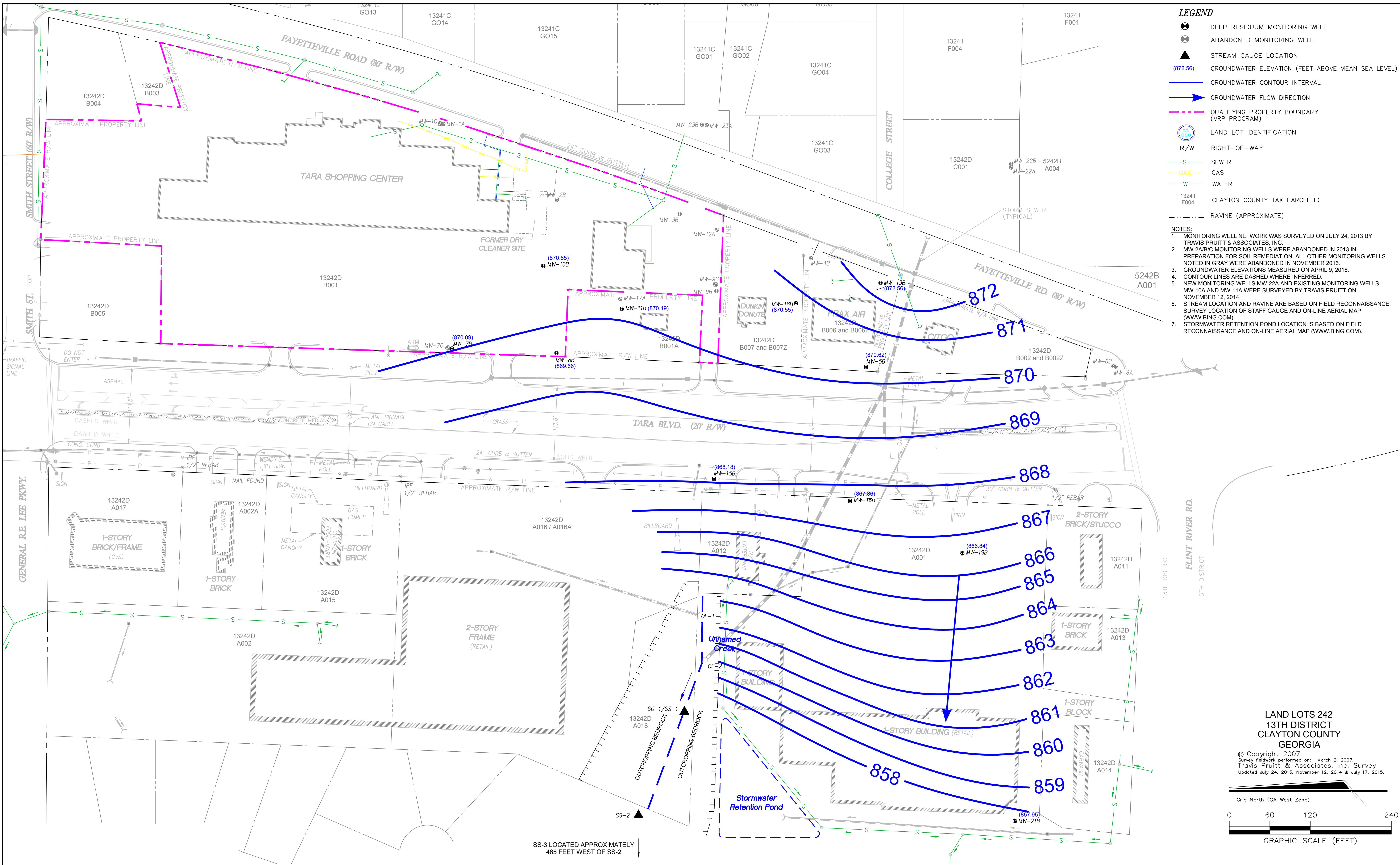
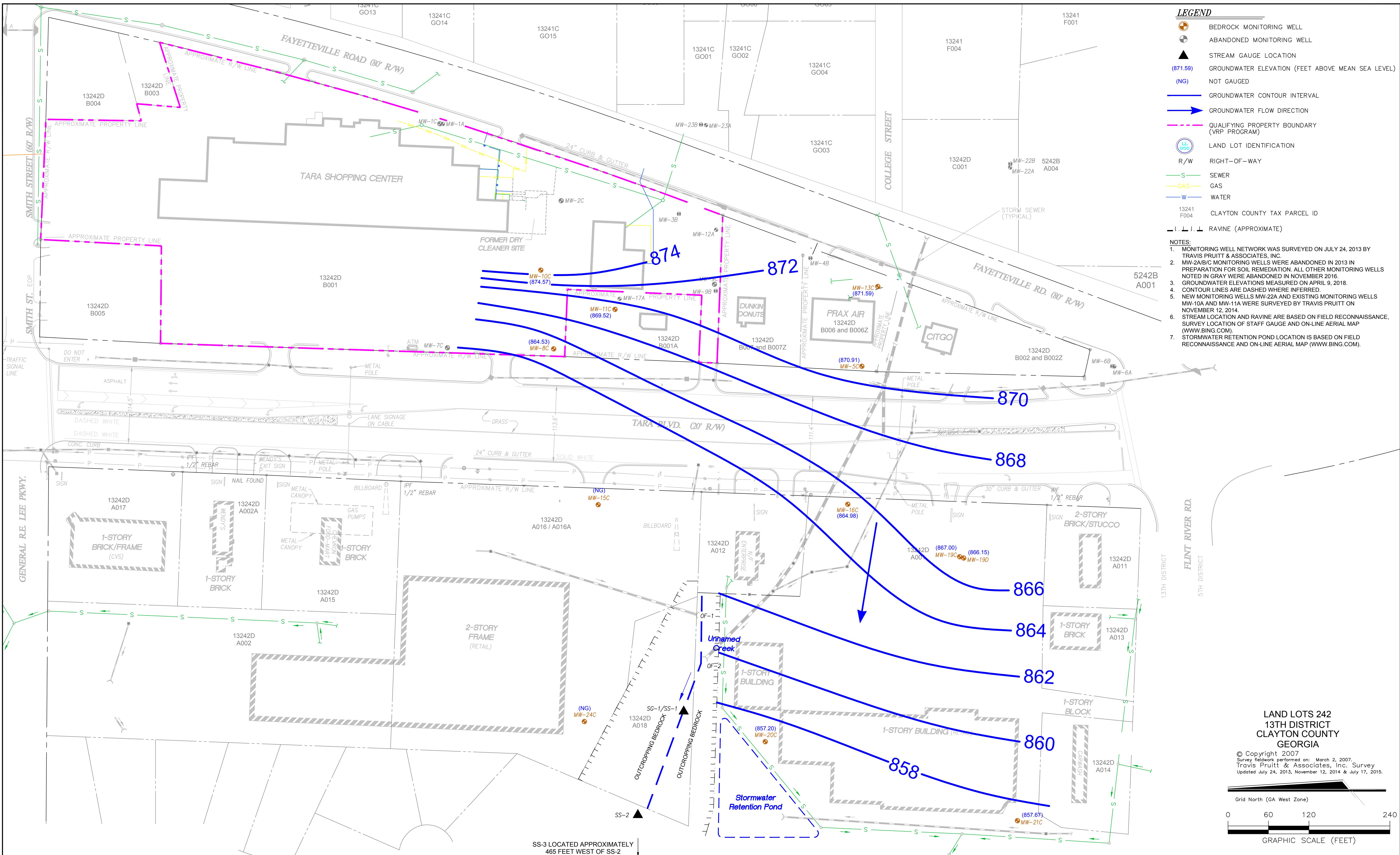


 FIGURE 3 UPPER RESIDUUM POTENTIOMETRIC SURFACE CONTOUR: APRIL 9, 2018	REVISIONS				TARA HOLDINGS 8564 TARA BOULEVARD JONESBORO, GEORGIA	Drawn By:	MDO	Date Drawn:	06/2018	
	Rev.		By:	Disc.:		Date:	Reviewed By:	MS	Date Reviewed:	06/2018
	Rev.		By:	Disc.:		Date:	Scale:	1" = 60'	Plot Date:	06/2018
	Rev.		By:	Disc.:		Date:				
	Rev.		By:	Disc.:		Date:				
	Rev.		By:	Disc.:		Date:	Project No.:	C00342	Figure No.:	Figure 3



Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []



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Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []
Rev. []	By: []	Disc: []	Date: []



ATTACHMENT A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Savannah

5102 LaRoche Avenue

Savannah, GA 31404

Tel: (912)354-7858

TestAmerica Job ID: 680-151360-1

Client Project/Site: Ashland Alterman (Jonesboro)

For:

EHS Support, LLC

228 4th Avenue

Decatur, Georgia 30033

Attn: Kris Spikes

Authorized for release by:

5/8/2018 2:43:44 PM

Jerry Lanier, Project Manager I

(912)354-7858 e.3410

jerry.lanier@testamericainc.com

LINKS

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The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Job ID: 680-151360-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 680-151360-1

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 04/20/2018; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.0 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples MW-13A (680-151360-1), MW-13B (680-151360-2), MW-19D (680-151360-3), MW-19C (680-151360-4), MW-19B (680-151360-5), MW-16B (680-151360-6), MW-16C (680-151360-7), MW-16A (680-151360-8), MW-20C (680-151360-9), MW-15A (680-151360-10), MW-15B (680-151360-11), DUP-1 (680-151360-12), EB-1 (680-151360-13), OF-1 (680-151360-14), SS-1 (680-151360-15), SS-2 (680-151360-16), SS-3 (680-151360-17) and TRIP BLANK (680-151360-18) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 04/25/2018, 05/02/2018, 05/03/2018 and 05/04/2018.

Reanalysis of the following samples were performed one day outside of the analytical holding time due to high target values for Tetrachloroethene : MW-19B (680-151360-5) and MW-15A (680-151360-10).

Surrogate recovery for the following sample was outside control limits: EB-1 (680-151360-13). Re-extraction and/or re-analysis was performed with concurring results. Both sets of data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 680-522487 recovered outside control limits for the following analytes: Vinyl chloride.

The following analyte(s) recovered outside control limits for the LCSD associated with analytical batch 680-522487: Vinyl chloride. This is not indicative of a systematic control problem because these were random marginal exceedances. Qualified results have been reported.

The laboratory control sample (LCS) for analytical batch 680-522622 recovered outside control limits for the following analyte(s): Bromomethane. Bromomethane has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

The laboratory control sample (LCS) for analytical batch 680-522665 recovered outside control limits for the following analytes: 2-Butanone (MEK). This analyte was biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for batch analytical batch 680-522665 recovered outside control limits for the following analytes: Chloroethane.

The matrix spike/matrix spike duplicate (MS/MSD) for analytical batch 680-522665 exceeded control limits for the following analyte(s): Chloroethane. Note that this analyte is a known poor performer when analyzed using this method.

Refer to the QC report for details.

Case Narrative

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Job ID: 680-151360-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

Samples MW-19D (680-151360-3)[5X], MW-19C (680-151360-4)[5X], MW-19B (680-151360-5)[2X], MW-16B (680-151360-6)[5X], MW-16C (680-151360-7)[5X], MW-16A (680-151360-8)[5X], MW-20C (680-151360-9)[2X] and MW-15A (680-151360-10)[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 680-522487, 680-521365, 680-522622, and 680-522369.

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

Sample Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-151360-1	MW-13A	Water	04/19/18 11:50	04/20/18 06:50
680-151360-2	MW-13B	Water	04/19/18 11:40	04/20/18 06:50
680-151360-3	MW-19D	Water	04/19/18 12:45	04/20/18 06:50
680-151360-4	MW-19C	Water	04/19/18 12:35	04/20/18 06:50
680-151360-5	MW-19B	Water	04/19/18 12:25	04/20/18 06:50
680-151360-6	MW-16B	Water	04/19/18 13:45	04/20/18 06:50
680-151360-7	MW-16C	Water	04/19/18 13:55	04/20/18 06:50
680-151360-8	MW-16A	Water	04/19/18 13:35	04/20/18 06:50
680-151360-9	MW-20C	Water	04/19/18 14:55	04/20/18 06:50
680-151360-10	MW-15A	Water	04/19/18 14:30	04/20/18 06:50
680-151360-11	MW-15B	Water	04/19/18 14:35	04/20/18 06:50
680-151360-12	DUP-1	Water	04/19/18 15:20	04/20/18 06:50
680-151360-13	EB-1	Water	04/19/18 16:00	04/20/18 06:50
680-151360-14	OF-1	Water	04/19/18 15:15	04/20/18 06:50
680-151360-15	SS-1	Water	04/19/18 15:20	04/20/18 06:50
680-151360-16	SS-2	Water	04/19/18 15:25	04/20/18 06:50
680-151360-17	SS-3	Water	04/19/18 15:50	04/20/18 06:50
680-151360-18	TRIP BLANK	Water	04/12/18 00:00	04/20/18 06:50

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TestAmerica Savannah

Method Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
5030B	Purge and Trap	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 (Jonesboro)

TestAmerica Job ID: 680-151360-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-13A

Lab Sample ID: 680-151360-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.3		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	110		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	31		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	47		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	11	*	1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-13B

Lab Sample ID: 680-151360-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	140		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	130		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.6		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	22		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-19D

Lab Sample ID: 680-151360-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	100		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	76		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	15		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-19C

Lab Sample ID: 680-151360-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	72		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	360		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	36		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-19B

Lab Sample ID: 680-151360-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	47		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	21		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	220	H	2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-16B

Lab Sample ID: 680-151360-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	120		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	470		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	43		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-16C

Lab Sample ID: 680-151360-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	150		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	820		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	74		5.0		ug/L	5		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-16A

Lab Sample ID: 680-151360-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	130		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	450		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	54		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-20C

Lab Sample ID: 680-151360-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	21		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene	120		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	14		2.0		ug/L	2		8260B	Total/NA

Client Sample ID: MW-15A

Lab Sample ID: 680-151360-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0		ug/L	1		8260B	Total/NA
trans-1,2-Dichloroethene	1.5		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	51		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene - DL	350	H	5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-15B

Lab Sample ID: 680-151360-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	160		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: DUP-1

Lab Sample ID: 680-151360-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.9		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	46		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: EB-1

Lab Sample ID: 680-151360-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorodibromomethane	1.8		1.0		ug/L	1		8260B	Total/NA
Chloroform	11		1.0		ug/L	1		8260B	Total/NA
Dichlorobromomethane	4.3		1.0		ug/L	1		8260B	Total/NA
Chlorodibromomethane - RA	2.3		1.0		ug/L	1		8260B	Total/NA
Chloroform - RA	14		1.0		ug/L	1		8260B	Total/NA
Dichlorobromomethane - RA	5.0		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: OF-1

Lab Sample ID: 680-151360-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	5.5		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	1.6		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-1

Lab Sample ID: 680-151360-15

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Detection Summary

Client: EHS Support, LLC

TestAmerica Job ID: 680-151360-1

Project/Site: Ashland Alterman (Jonesboro)

Client Sample ID: SS-1 (Continued)

Lab Sample ID: 680-151360-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	47		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	3.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-2

Lab Sample ID: 680-151360-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.0		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	32		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.2		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SS-3

Lab Sample ID: 680-151360-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.5		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	25		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	2.1		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: TRIP BLANK

Lab Sample ID: 680-151360-18

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-13A

Date Collected: 04/19/18 11:50

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 15:32	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 15:32	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 15:32	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 15:32	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 15:32	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 15:32	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 15:32	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 15:32	1
2-Hexanone	<10		10		ug/L			05/03/18 15:32	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 15:32	1
Acetone	<10		10		ug/L			05/03/18 15:32	1
Benzene	3.3		1.0		ug/L			05/03/18 15:32	1
Bromoform	<1.0		1.0		ug/L			05/03/18 15:32	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 15:32	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 15:32	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 15:32	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 15:32	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 15:32	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 15:32	1
Chloroform	<1.0		1.0		ug/L			05/03/18 15:32	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 15:32	1
cis-1,2-Dichloroethene	110		1.0		ug/L			05/03/18 15:32	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 15:32	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 15:32	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 15:32	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 15:32	1
Styrene	<1.0		1.0		ug/L			05/03/18 15:32	1
Tetrachloroethene	31		1.0		ug/L			05/03/18 15:32	1
Toluene	<1.0		1.0		ug/L			05/03/18 15:32	1
trans-1,2-Dichloroethene	1.6		1.0		ug/L			05/03/18 15:32	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 15:32	1
Trichloroethene	47		1.0		ug/L			05/03/18 15:32	1
Vinyl chloride	11 *		1.0		ug/L			05/03/18 15:32	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surrogate)	103		80 - 120					05/03/18 15:32	1
1,2-Dichloroethane-d4 (Surrogate)	98		73 - 131					05/03/18 15:32	1
Dibromofluoromethane (Surrogate)	103		80 - 122					05/03/18 15:32	1
4-Bromofluorobenzene (Surrogate)	95		80 - 120					05/03/18 15:32	1

Client Sample ID: MW-13B

Date Collected: 04/19/18 11:40

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 15:54	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 15:54	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 15:54	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-13B

Date Collected: 04/19/18 11:40

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 15:54	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 15:54	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 15:54	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 15:54	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 15:54	1
2-Hexanone	<10		10		ug/L			05/03/18 15:54	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 15:54	1
Acetone	<10		10		ug/L			05/03/18 15:54	1
Benzene	<1.0		1.0		ug/L			05/03/18 15:54	1
Bromoform	<1.0		1.0		ug/L			05/03/18 15:54	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 15:54	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 15:54	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 15:54	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 15:54	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 15:54	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 15:54	1
Chloroform	<1.0		1.0		ug/L			05/03/18 15:54	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 15:54	1
cis-1,2-Dichloroethene	140		1.0		ug/L			05/03/18 15:54	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 15:54	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 15:54	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 15:54	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 15:54	1
Styrene	<1.0		1.0		ug/L			05/03/18 15:54	1
Tetrachloroethene	130		1.0		ug/L			05/03/18 15:54	1
Toluene	<1.0		1.0		ug/L			05/03/18 15:54	1
trans-1,2-Dichloroethene	1.6		1.0		ug/L			05/03/18 15:54	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 15:54	1
Trichloroethene	22		1.0		ug/L			05/03/18 15:54	1
Vinyl chloride	<1.0 *		1.0		ug/L			05/03/18 15:54	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 15:54	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					05/03/18 15:54	1
1,2-Dichloroethane-d4 (Surr)	98		73 - 131					05/03/18 15:54	1
Dibromofluoromethane (Surr)	103		80 - 122					05/03/18 15:54	1
4-Bromofluorobenzene (Surr)	96		80 - 120					05/03/18 15:54	1

Client Sample ID: MW-19D

Date Collected: 04/19/18 12:45

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			05/03/18 11:55	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			05/03/18 11:55	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/03/18 11:55	5
1,1-Dichloroethane	<5.0		5.0		ug/L			05/03/18 11:55	5
1,1-Dichloroethene	<5.0		5.0		ug/L			05/03/18 11:55	5
1,2-Dichloroethane	<5.0		5.0		ug/L			05/03/18 11:55	5

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-19D

Date Collected: 04/19/18 12:45

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<5.0		5.0		ug/L			05/03/18 11:55	5
2-Butanone (MEK)	<50		50		ug/L			05/03/18 11:55	5
2-Hexanone	<50		50		ug/L			05/03/18 11:55	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			05/03/18 11:55	5
Acetone	<50		50		ug/L			05/03/18 11:55	5
Benzene	<5.0		5.0		ug/L			05/03/18 11:55	5
Bromoform	<5.0		5.0		ug/L			05/03/18 11:55	5
Bromomethane	<25		25		ug/L			05/03/18 11:55	5
Carbon disulfide	<10		10		ug/L			05/03/18 11:55	5
Carbon tetrachloride	<5.0		5.0		ug/L			05/03/18 11:55	5
Chlorobenzene	<5.0		5.0		ug/L			05/03/18 11:55	5
Chlorodibromomethane	<5.0		5.0		ug/L			05/03/18 11:55	5
Chloroethane	<25		25		ug/L			05/03/18 11:55	5
Chloroform	<5.0		5.0		ug/L			05/03/18 11:55	5
Chloromethane	<5.0		5.0		ug/L			05/03/18 11:55	5
cis-1,2-Dichloroethene	100		5.0		ug/L			05/03/18 11:55	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 11:55	5
Dichlorobromomethane	<5.0		5.0		ug/L			05/03/18 11:55	5
Ethylbenzene	<5.0		5.0		ug/L			05/03/18 11:55	5
Methylene Chloride	<25		25		ug/L			05/03/18 11:55	5
Styrene	<5.0		5.0		ug/L			05/03/18 11:55	5
Tetrachloroethene	76		5.0		ug/L			05/03/18 11:55	5
Toluene	<5.0		5.0		ug/L			05/03/18 11:55	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			05/03/18 11:55	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 11:55	5
Trichloroethene	15		5.0		ug/L			05/03/18 11:55	5
Vinyl chloride	<5.0 *		5.0		ug/L			05/03/18 11:55	5
Xylenes, Total	<5.0		5.0		ug/L			05/03/18 11:55	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					05/03/18 11:55	5
1,2-Dichloroethane-d4 (Surr)	104		73 - 131					05/03/18 11:55	5
Dibromofluoromethane (Surr)	107		80 - 122					05/03/18 11:55	5
4-Bromofluorobenzene (Surr)	100		80 - 120					05/03/18 11:55	5

Client Sample ID: MW-19C

Date Collected: 04/19/18 12:35

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			05/03/18 12:17	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			05/03/18 12:17	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/03/18 12:17	5
1,1-Dichloroethane	<5.0		5.0		ug/L			05/03/18 12:17	5
1,1-Dichloroethene	<5.0		5.0		ug/L			05/03/18 12:17	5
1,2-Dichloroethane	<5.0		5.0		ug/L			05/03/18 12:17	5
1,2-Dichloropropane	<5.0		5.0		ug/L			05/03/18 12:17	5
2-Butanone (MEK)	<50		50		ug/L			05/03/18 12:17	5
2-Hexanone	<50		50		ug/L			05/03/18 12:17	5

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-19C

Lab Sample ID: 680-151360-4

Matrix: Water

Date Collected: 04/19/18 12:35

Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			05/03/18 12:17	5
Acetone	<50		50		ug/L			05/03/18 12:17	5
Benzene	<5.0		5.0		ug/L			05/03/18 12:17	5
Bromoform	<5.0		5.0		ug/L			05/03/18 12:17	5
Bromomethane	<25		25		ug/L			05/03/18 12:17	5
Carbon disulfide	<10		10		ug/L			05/03/18 12:17	5
Carbon tetrachloride	<5.0		5.0		ug/L			05/03/18 12:17	5
Chlorobenzene	<5.0		5.0		ug/L			05/03/18 12:17	5
Chlorodibromomethane	<5.0		5.0		ug/L			05/03/18 12:17	5
Chloroethane	<25		25		ug/L			05/03/18 12:17	5
Chloroform	<5.0		5.0		ug/L			05/03/18 12:17	5
Chloromethane	<5.0		5.0		ug/L			05/03/18 12:17	5
cis-1,2-Dichloroethene	72		5.0		ug/L			05/03/18 12:17	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 12:17	5
Dichlorobromomethane	<5.0		5.0		ug/L			05/03/18 12:17	5
Ethylbenzene	<5.0		5.0		ug/L			05/03/18 12:17	5
Methylene Chloride	<25		25		ug/L			05/03/18 12:17	5
Styrene	<5.0		5.0		ug/L			05/03/18 12:17	5
Tetrachloroethene	360		5.0		ug/L			05/03/18 12:17	5
Toluene	<5.0		5.0		ug/L			05/03/18 12:17	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			05/03/18 12:17	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 12:17	5
Trichloroethene	36		5.0		ug/L			05/03/18 12:17	5
Vinyl chloride	<5.0 *		5.0		ug/L			05/03/18 12:17	5
Xylenes, Total	<5.0		5.0		ug/L			05/03/18 12:17	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					05/03/18 12:17	5
1,2-Dichloroethane-d4 (Surr)	104		73 - 131					05/03/18 12:17	5
Dibromofluoromethane (Surr)	106		80 - 122					05/03/18 12:17	5
4-Bromofluorobenzene (Surr)	98		80 - 120					05/03/18 12:17	5

Client Sample ID: MW-19B

Lab Sample ID: 680-151360-5

Matrix: Water

Date Collected: 04/19/18 12:25

Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:15	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 16:15	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:15	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:15	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 16:15	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:15	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 16:15	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 16:15	1
2-Hexanone	<10		10		ug/L			05/03/18 16:15	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 16:15	1
Acetone	<10		10		ug/L			05/03/18 16:15	1
Benzene	<1.0		1.0		ug/L			05/03/18 16:15	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-19B

Date Collected: 04/19/18 12:25

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L			05/03/18 16:15	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 16:15	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 16:15	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 16:15	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 16:15	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 16:15	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 16:15	1
Chloroform	<1.0		1.0		ug/L			05/03/18 16:15	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 16:15	1
cis-1,2-Dichloroethene	47		1.0		ug/L			05/03/18 16:15	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 16:15	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 16:15	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 16:15	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 16:15	1
Styrene	<1.0		1.0		ug/L			05/03/18 16:15	1
Toluene	<1.0		1.0		ug/L			05/03/18 16:15	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 16:15	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 16:15	1
Trichloroethene	21		1.0		ug/L			05/03/18 16:15	1
Vinyl chloride	<1.0 *		1.0		ug/L			05/03/18 16:15	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 16:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					05/03/18 16:15	1
1,2-Dichloroethane-d4 (Surr)	99		73 - 131					05/03/18 16:15	1
Dibromofluoromethane (Surr)	104		80 - 122					05/03/18 16:15	1
4-Bromofluorobenzene (Surr)	98		80 - 120					05/03/18 16:15	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	220	H	2.0		ug/L			05/04/18 16:07	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					05/04/18 16:07	2
1,2-Dichloroethane-d4 (Surr)	107		73 - 131					05/04/18 16:07	2
Dibromofluoromethane (Surr)	101		80 - 122					05/04/18 16:07	2
4-Bromofluorobenzene (Surr)	97		80 - 120					05/04/18 16:07	2

Client Sample ID: MW-16B

Date Collected: 04/19/18 13:45

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			05/03/18 12:38	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			05/03/18 12:38	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/03/18 12:38	5
1,1-Dichloroethane	<5.0		5.0		ug/L			05/03/18 12:38	5
1,1-Dichloroethene	<5.0		5.0		ug/L			05/03/18 12:38	5
1,2-Dichloroethane	<5.0		5.0		ug/L			05/03/18 12:38	5

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-16B

Date Collected: 04/19/18 13:45

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<5.0		5.0		ug/L			05/03/18 12:38	5
2-Butanone (MEK)	<50		50		ug/L			05/03/18 12:38	5
2-Hexanone	<50		50		ug/L			05/03/18 12:38	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			05/03/18 12:38	5
Acetone	<50		50		ug/L			05/03/18 12:38	5
Benzene	<5.0		5.0		ug/L			05/03/18 12:38	5
Bromoform	<5.0		5.0		ug/L			05/03/18 12:38	5
Bromomethane	<25		25		ug/L			05/03/18 12:38	5
Carbon disulfide	<10		10		ug/L			05/03/18 12:38	5
Carbon tetrachloride	<5.0		5.0		ug/L			05/03/18 12:38	5
Chlorobenzene	<5.0		5.0		ug/L			05/03/18 12:38	5
Chlorodibromomethane	<5.0		5.0		ug/L			05/03/18 12:38	5
Chloroethane	<25		25		ug/L			05/03/18 12:38	5
Chloroform	<5.0		5.0		ug/L			05/03/18 12:38	5
Chloromethane	<5.0		5.0		ug/L			05/03/18 12:38	5
cis-1,2-Dichloroethene	120		5.0		ug/L			05/03/18 12:38	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 12:38	5
Dichlorobromomethane	<5.0		5.0		ug/L			05/03/18 12:38	5
Ethylbenzene	<5.0		5.0		ug/L			05/03/18 12:38	5
Methylene Chloride	<25		25		ug/L			05/03/18 12:38	5
Styrene	<5.0		5.0		ug/L			05/03/18 12:38	5
Tetrachloroethene	470		5.0		ug/L			05/03/18 12:38	5
Toluene	<5.0		5.0		ug/L			05/03/18 12:38	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			05/03/18 12:38	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 12:38	5
Trichloroethene	43		5.0		ug/L			05/03/18 12:38	5
Vinyl chloride	<5.0 *		5.0		ug/L			05/03/18 12:38	5
Xylenes, Total	<5.0		5.0		ug/L			05/03/18 12:38	5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120					05/03/18 12:38	5
1,2-Dichloroethane-d4 (Surr)	103		73 - 131					05/03/18 12:38	5
Dibromofluoromethane (Surr)	106		80 - 122					05/03/18 12:38	5
4-Bromofluorobenzene (Surr)	97		80 - 120					05/03/18 12:38	5

Client Sample ID: MW-16C

Date Collected: 04/19/18 13:55

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			05/03/18 13:00	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			05/03/18 13:00	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/03/18 13:00	5
1,1-Dichloroethane	<5.0		5.0		ug/L			05/03/18 13:00	5
1,1-Dichloroethene	<5.0		5.0		ug/L			05/03/18 13:00	5
1,2-Dichloroethane	<5.0		5.0		ug/L			05/03/18 13:00	5
1,2-Dichloropropane	<5.0		5.0		ug/L			05/03/18 13:00	5
2-Butanone (MEK)	<50		50		ug/L			05/03/18 13:00	5
2-Hexanone	<50		50		ug/L			05/03/18 13:00	5

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-16C

Lab Sample ID: 680-151360-7

Matrix: Water

Date Collected: 04/19/18 13:55

Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			05/03/18 13:00	5
Acetone	<50		50		ug/L			05/03/18 13:00	5
Benzene	<5.0		5.0		ug/L			05/03/18 13:00	5
Bromoform	<5.0		5.0		ug/L			05/03/18 13:00	5
Bromomethane	<25		25		ug/L			05/03/18 13:00	5
Carbon disulfide	<10		10		ug/L			05/03/18 13:00	5
Carbon tetrachloride	<5.0		5.0		ug/L			05/03/18 13:00	5
Chlorobenzene	<5.0		5.0		ug/L			05/03/18 13:00	5
Chlorodibromomethane	<5.0		5.0		ug/L			05/03/18 13:00	5
Chloroethane	<25		25		ug/L			05/03/18 13:00	5
Chloroform	<5.0		5.0		ug/L			05/03/18 13:00	5
Chloromethane	<5.0		5.0		ug/L			05/03/18 13:00	5
cis-1,2-Dichloroethene	150		5.0		ug/L			05/03/18 13:00	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 13:00	5
Dichlorobromomethane	<5.0		5.0		ug/L			05/03/18 13:00	5
Ethylbenzene	<5.0		5.0		ug/L			05/03/18 13:00	5
Methylene Chloride	<25		25		ug/L			05/03/18 13:00	5
Styrene	<5.0		5.0		ug/L			05/03/18 13:00	5
Tetrachloroethene	820		5.0		ug/L			05/03/18 13:00	5
Toluene	<5.0		5.0		ug/L			05/03/18 13:00	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			05/03/18 13:00	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			05/03/18 13:00	5
Trichloroethene	74		5.0		ug/L			05/03/18 13:00	5
Vinyl chloride	<5.0 *		5.0		ug/L			05/03/18 13:00	5
Xylenes, Total	<5.0		5.0		ug/L			05/03/18 13:00	5
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102			80 - 120				05/03/18 13:00	5
1,2-Dichloroethane-d4 (Surr)	104			73 - 131				05/03/18 13:00	5
Dibromofluoromethane (Surr)	106			80 - 122				05/03/18 13:00	5
4-Bromofluorobenzene (Surr)	96			80 - 120				05/03/18 13:00	5

Client Sample ID: MW-16A

Lab Sample ID: 680-151360-8

Matrix: Water

Date Collected: 04/19/18 13:35

Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<5.0		5.0		ug/L			05/03/18 13:22	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			05/03/18 13:22	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			05/03/18 13:22	5
1,1-Dichloroethane	<5.0		5.0		ug/L			05/03/18 13:22	5
1,1-Dichloroethene	<5.0		5.0		ug/L			05/03/18 13:22	5
1,2-Dichloroethane	<5.0		5.0		ug/L			05/03/18 13:22	5
1,2-Dichloropropane	<5.0		5.0		ug/L			05/03/18 13:22	5
2-Butanone (MEK)	<50		50		ug/L			05/03/18 13:22	5
2-Hexanone	<50		50		ug/L			05/03/18 13:22	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			05/03/18 13:22	5
Acetone	<50		50		ug/L			05/03/18 13:22	5
Benzene	<5.0		5.0		ug/L			05/03/18 13:22	5

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-16A

Lab Sample ID: 680-151360-8

Matrix: Water

Date Collected: 04/19/18 13:35
Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<5.0		5.0		ug/L		05/03/18 13:22		5
Bromomethane	<25		25		ug/L		05/03/18 13:22		5
Carbon disulfide	<10		10		ug/L		05/03/18 13:22		5
Carbon tetrachloride	<5.0		5.0		ug/L		05/03/18 13:22		5
Chlorobenzene	<5.0		5.0		ug/L		05/03/18 13:22		5
Chlorodibromomethane	<5.0		5.0		ug/L		05/03/18 13:22		5
Chloroethane	<25		25		ug/L		05/03/18 13:22		5
Chloroform	<5.0		5.0		ug/L		05/03/18 13:22		5
Chloromethane	<5.0		5.0		ug/L		05/03/18 13:22		5
cis-1,2-Dichloroethene	130		5.0		ug/L		05/03/18 13:22		5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L		05/03/18 13:22		5
Dichlorobromomethane	<5.0		5.0		ug/L		05/03/18 13:22		5
Ethylbenzene	<5.0		5.0		ug/L		05/03/18 13:22		5
Methylene Chloride	<25		25		ug/L		05/03/18 13:22		5
Styrene	<5.0		5.0		ug/L		05/03/18 13:22		5
Tetrachloroethene	450		5.0		ug/L		05/03/18 13:22		5
Toluene	<5.0		5.0		ug/L		05/03/18 13:22		5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L		05/03/18 13:22		5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L		05/03/18 13:22		5
Trichloroethene	54		5.0		ug/L		05/03/18 13:22		5
Vinyl chloride	<5.0 *		5.0		ug/L		05/03/18 13:22		5
Xylenes, Total	<5.0		5.0		ug/L		05/03/18 13:22		5
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120				05/03/18 13:22		5
1,2-Dichloroethane-d4 (Surr)	105		73 - 131				05/03/18 13:22		5
Dibromofluoromethane (Surr)	108		80 - 122				05/03/18 13:22		5
4-Bromofluorobenzene (Surr)	98		80 - 120				05/03/18 13:22		5

Client Sample ID: MW-20C

Lab Sample ID: 680-151360-9

Matrix: Water

Date Collected: 04/19/18 14:55
Date Received: 04/20/18 06:50

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<2.0		2.0		ug/L		05/03/18 13:43		2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L		05/03/18 13:43		2
1,1,2-Trichloroethane	<2.0		2.0		ug/L		05/03/18 13:43		2
1,1-Dichloroethane	<2.0		2.0		ug/L		05/03/18 13:43		2
1,1-Dichloroethene	<2.0		2.0		ug/L		05/03/18 13:43		2
1,2-Dichloroethane	<2.0		2.0		ug/L		05/03/18 13:43		2
1,2-Dichloropropane	<2.0		2.0		ug/L		05/03/18 13:43		2
2-Butanone (MEK)	<20		20		ug/L		05/03/18 13:43		2
2-Hexanone	<20		20		ug/L		05/03/18 13:43		2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L		05/03/18 13:43		2
Acetone	<20		20		ug/L		05/03/18 13:43		2
Benzene	<2.0		2.0		ug/L		05/03/18 13:43		2
Bromoform	<2.0		2.0		ug/L		05/03/18 13:43		2
Bromomethane	<10		10		ug/L		05/03/18 13:43		2
Carbon disulfide	<4.0		4.0		ug/L		05/03/18 13:43		2

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-20C

Date Collected: 04/19/18 14:55

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<2.0		2.0		ug/L			05/03/18 13:43	2
Chlorobenzene	<2.0		2.0		ug/L			05/03/18 13:43	2
Chlorodibromomethane	<2.0		2.0		ug/L			05/03/18 13:43	2
Chloroethane	<10		10		ug/L			05/03/18 13:43	2
Chloroform	<2.0		2.0		ug/L			05/03/18 13:43	2
Chloromethane	<2.0		2.0		ug/L			05/03/18 13:43	2
cis-1,2-Dichloroethene	21		2.0		ug/L			05/03/18 13:43	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			05/03/18 13:43	2
Dichlorobromomethane	<2.0		2.0		ug/L			05/03/18 13:43	2
Ethylbenzene	<2.0		2.0		ug/L			05/03/18 13:43	2
Methylene Chloride	<10		10		ug/L			05/03/18 13:43	2
Styrene	<2.0		2.0		ug/L			05/03/18 13:43	2
Tetrachloroethene	120		2.0		ug/L			05/03/18 13:43	2
Toluene	<2.0		2.0		ug/L			05/03/18 13:43	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			05/03/18 13:43	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			05/03/18 13:43	2
Trichloroethene	14		2.0		ug/L			05/03/18 13:43	2
Vinyl chloride	<2.0 *		2.0		ug/L			05/03/18 13:43	2
Xylenes, Total	<2.0		2.0		ug/L			05/03/18 13:43	2
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					05/03/18 13:43	2
1,2-Dichloroethane-d4 (Surr)	104		73 - 131					05/03/18 13:43	2
Dibromofluoromethane (Surr)	107		80 - 122					05/03/18 13:43	2
4-Bromofluorobenzene (Surr)	98		80 - 120					05/03/18 13:43	2

Client Sample ID: MW-15A

Date Collected: 04/19/18 14:30

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:37	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 16:37	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:37	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:37	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 16:37	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:37	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 16:37	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 16:37	1
2-Hexanone	<10		10		ug/L			05/03/18 16:37	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 16:37	1
Acetone	<10		10		ug/L			05/03/18 16:37	1
Benzene	<1.0		1.0		ug/L			05/03/18 16:37	1
Bromoform	<1.0		1.0		ug/L			05/03/18 16:37	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 16:37	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 16:37	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 16:37	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 16:37	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 16:37	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-15A

Date Collected: 04/19/18 14:30

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			05/03/18 16:37	1
Chloroform	<1.0		1.0		ug/L			05/03/18 16:37	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 16:37	1
cis-1,2-Dichloroethene	17		1.0		ug/L			05/03/18 16:37	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 16:37	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 16:37	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 16:37	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 16:37	1
Styrene	<1.0		1.0		ug/L			05/03/18 16:37	1
Toluene	<1.0		1.0		ug/L			05/03/18 16:37	1
trans-1,2-Dichloroethene	1.5		1.0		ug/L			05/03/18 16:37	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 16:37	1
Trichloroethene	51		1.0		ug/L			05/03/18 16:37	1
Vinyl chloride	<1.0 *		1.0		ug/L			05/03/18 16:37	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 16:37	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					05/03/18 16:37	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131					05/03/18 16:37	1
Dibromofluoromethane (Surr)	106		80 - 122					05/03/18 16:37	1
4-Bromofluorobenzene (Surr)	98		80 - 120					05/03/18 16:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	350	H	5.0		ug/L			05/04/18 16:30	5
<hr/>									
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	107		80 - 120					05/04/18 16:30	5
1,2-Dichloroethane-d4 (Surr)	99		73 - 131					05/04/18 16:30	5
Dibromofluoromethane (Surr)	106		80 - 122					05/04/18 16:30	5
4-Bromofluorobenzene (Surr)	92		80 - 120					05/04/18 16:30	5

Client Sample ID: MW-15B

Date Collected: 04/19/18 14:35

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:59	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 16:59	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 16:59	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:59	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 16:59	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 16:59	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 16:59	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 16:59	1
2-Hexanone	<10		10		ug/L			05/03/18 16:59	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 16:59	1
Acetone	<10		10		ug/L			05/03/18 16:59	1
Benzene	<1.0		1.0		ug/L			05/03/18 16:59	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-15B

Date Collected: 04/19/18 14:35

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0		1.0		ug/L		05/03/18 16:59		1
Bromomethane	<5.0		5.0		ug/L		05/03/18 16:59		1
Carbon disulfide	<2.0		2.0		ug/L		05/03/18 16:59		1
Carbon tetrachloride	<1.0		1.0		ug/L		05/03/18 16:59		1
Chlorobenzene	<1.0		1.0		ug/L		05/03/18 16:59		1
Chlorodibromomethane	<1.0		1.0		ug/L		05/03/18 16:59		1
Chloroethane	<5.0		5.0		ug/L		05/03/18 16:59		1
Chloroform	<1.0		1.0		ug/L		05/03/18 16:59		1
Chloromethane	<1.0		1.0		ug/L		05/03/18 16:59		1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L		05/03/18 16:59		1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L		05/03/18 16:59		1
Dichlorobromomethane	<1.0		1.0		ug/L		05/03/18 16:59		1
Ethylbenzene	<1.0		1.0		ug/L		05/03/18 16:59		1
Methylene Chloride	<5.0		5.0		ug/L		05/03/18 16:59		1
Styrene	<1.0		1.0		ug/L		05/03/18 16:59		1
Tetrachloroethene	160		1.0		ug/L		05/03/18 16:59		1
Toluene	<1.0		1.0		ug/L		05/03/18 16:59		1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L		05/03/18 16:59		1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L		05/03/18 16:59		1
Trichloroethene	2.4		1.0		ug/L		05/03/18 16:59		1
Vinyl chloride	<1.0 *		1.0		ug/L		05/03/18 16:59		1
Xylenes, Total	<1.0		1.0		ug/L		05/03/18 16:59		1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120				05/03/18 16:59		1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131				05/03/18 16:59		1
Dibromofluoromethane (Surr)	107		80 - 122				05/03/18 16:59		1
4-Bromofluorobenzene (Surr)	99		80 - 120				05/03/18 16:59		1

Client Sample ID: DUP-1

Date Collected: 04/19/18 15:20

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L		05/03/18 22:12		1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L		05/03/18 22:12		1
1,1,2-Trichloroethane	<1.0		1.0		ug/L		05/03/18 22:12		1
1,1-Dichloroethane	<1.0		1.0		ug/L		05/03/18 22:12		1
1,1-Dichloroethene	<1.0		1.0		ug/L		05/03/18 22:12		1
1,2-Dichloroethane	<1.0		1.0		ug/L		05/03/18 22:12		1
1,2-Dichloropropane	<1.0		1.0		ug/L		05/03/18 22:12		1
2-Butanone (MEK)	<10		10		ug/L		05/03/18 22:12		1
2-Hexanone	<10		10		ug/L		05/03/18 22:12		1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L		05/03/18 22:12		1
Acetone	<10		10		ug/L		05/03/18 22:12		1
Benzene	<1.0		1.0		ug/L		05/03/18 22:12		1
Bromoform	<1.0		1.0		ug/L		05/03/18 22:12		1
Bromomethane	<5.0 *		5.0		ug/L		05/03/18 22:12		1
Carbon disulfide	<2.0		2.0		ug/L		05/03/18 22:12		1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: DUP-1

Date Collected: 04/19/18 15:20

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 22:12	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 22:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 22:12	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 22:12	1
Chloroform	<1.0		1.0		ug/L			05/03/18 22:12	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 22:12	1
cis-1,2-Dichloroethene	2.9		1.0		ug/L			05/03/18 22:12	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 22:12	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 22:12	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 22:12	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 22:12	1
Styrene	<1.0		1.0		ug/L			05/03/18 22:12	1
Tetrachloroethene	46		1.0		ug/L			05/03/18 22:12	1
Toluene	<1.0		1.0		ug/L			05/03/18 22:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 22:12	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 22:12	1
Trichloroethene	3.1		1.0		ug/L			05/03/18 22:12	1
Vinyl chloride	<1.0		1.0		ug/L			05/03/18 22:12	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 22:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120					05/03/18 22:12	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131					05/03/18 22:12	1
Dibromofluoromethane (Surr)	107		80 - 122					05/03/18 22:12	1
4-Bromofluorobenzene (Surr)	100		80 - 120					05/03/18 22:12	1

Client Sample ID: EB-1

Date Collected: 04/19/18 16:00

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/02/18 13:26	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/02/18 13:26	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/02/18 13:26	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/02/18 13:26	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/02/18 13:26	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/02/18 13:26	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/02/18 13:26	1
2-Butanone (MEK)	<10		10		ug/L			05/02/18 13:26	1
2-Hexanone	<10		10		ug/L			05/02/18 13:26	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/02/18 13:26	1
Acetone	<10		10		ug/L			05/02/18 13:26	1
Benzene	<1.0		1.0		ug/L			05/02/18 13:26	1
Bromoform	<1.0		1.0		ug/L			05/02/18 13:26	1
Bromomethane	<5.0		5.0		ug/L			05/02/18 13:26	1
Carbon disulfide	<2.0		2.0		ug/L			05/02/18 13:26	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/02/18 13:26	1
Chlorobenzene	<1.0		1.0		ug/L			05/02/18 13:26	1
Chlorodibromomethane	1.8		1.0		ug/L			05/02/18 13:26	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: EB-1

Date Collected: 04/19/18 16:00

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0		5.0		ug/L			05/02/18 13:26	1
Chloroform	11		1.0		ug/L			05/02/18 13:26	1
Chloromethane	<1.0		1.0		ug/L			05/02/18 13:26	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/02/18 13:26	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/02/18 13:26	1
Dichlorobromomethane	4.3		1.0		ug/L			05/02/18 13:26	1
Ethylbenzene	<1.0		1.0		ug/L			05/02/18 13:26	1
Methylene Chloride	<5.0		5.0		ug/L			05/02/18 13:26	1
Styrene	<1.0		1.0		ug/L			05/02/18 13:26	1
Tetrachloroethene	<1.0		1.0		ug/L			05/02/18 13:26	1
Toluene	<1.0		1.0		ug/L			05/02/18 13:26	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/02/18 13:26	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/02/18 13:26	1
Trichloroethene	<1.0		1.0		ug/L			05/02/18 13:26	1
Vinyl chloride	<1.0		1.0		ug/L			05/02/18 13:26	1
Xylenes, Total	<1.0		1.0		ug/L			05/02/18 13:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	77	X	80 - 120		05/02/18 13:26	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131		05/02/18 13:26	1
Dibromofluoromethane (Surr)	92		80 - 122		05/02/18 13:26	1
4-Bromofluorobenzene (Surr)	108		80 - 120		05/02/18 13:26	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 21:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 21:50	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 21:50	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 21:50	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 21:50	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 21:50	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 21:50	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 21:50	1
2-Hexanone	<10		10		ug/L			05/03/18 21:50	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 21:50	1
Acetone	<10		10		ug/L			05/03/18 21:50	1
Benzene	<1.0		1.0		ug/L			05/03/18 21:50	1
Bromoform	<1.0		1.0		ug/L			05/03/18 21:50	1
Bromomethane	<5.0 *		5.0		ug/L			05/03/18 21:50	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 21:50	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 21:50	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 21:50	1
Chlorodibromomethane	2.3		1.0		ug/L			05/03/18 21:50	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 21:50	1
Chloroform	14		1.0		ug/L			05/03/18 21:50	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 21:50	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 21:50	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 21:50	1
Dichlorobromomethane	5.0		1.0		ug/L			05/03/18 21:50	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 21:50	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: EB-1

Date Collected: 04/19/18 16:00

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 21:50	1
Styrene	<1.0		1.0		ug/L			05/03/18 21:50	1
Tetrachloroethene	<1.0		1.0		ug/L			05/03/18 21:50	1
Toluene	<1.0		1.0		ug/L			05/03/18 21:50	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 21:50	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 21:50	1
Trichloroethene	<1.0		1.0		ug/L			05/03/18 21:50	1
Vinyl chloride	<1.0		1.0		ug/L			05/03/18 21:50	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 21:50	1
Surrogate		%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	7	X		80 - 120				05/03/18 21:50	1
1,2-Dichloroethane-d4 (Surr)	101			73 - 131				05/03/18 21:50	1
Dibromofluoromethane (Surr)	109			80 - 122				05/03/18 21:50	1
4-Bromofluorobenzene (Surr)	101			80 - 120				05/03/18 21:50	1

Client Sample ID: OF-1

Date Collected: 04/19/18 15:15

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 22:33	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 22:33	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 22:33	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 22:33	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 22:33	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 22:33	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 22:33	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 22:33	1
2-Hexanone	<10		10		ug/L			05/03/18 22:33	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 22:33	1
Acetone	<10		10		ug/L			05/03/18 22:33	1
Benzene	<1.0		1.0		ug/L			05/03/18 22:33	1
Bromoform	<1.0		1.0		ug/L			05/03/18 22:33	1
Bromomethane	<5.0 *		5.0		ug/L			05/03/18 22:33	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 22:33	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 22:33	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 22:33	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 22:33	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 22:33	1
Chloroform	<1.0		1.0		ug/L			05/03/18 22:33	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 22:33	1
cis-1,2-Dichloroethene	2.0		1.0		ug/L			05/03/18 22:33	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 22:33	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 22:33	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 22:33	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 22:33	1
Styrene	<1.0		1.0		ug/L			05/03/18 22:33	1
Tetrachloroethene	5.5		1.0		ug/L			05/03/18 22:33	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: OF-1

Date Collected: 04/19/18 15:15

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	<1.0		1.0		ug/L			05/03/18 22:33	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 22:33	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 22:33	1
Trichloroethene	1.6		1.0		ug/L			05/03/18 22:33	1
Vinyl chloride	<1.0		1.0		ug/L			05/03/18 22:33	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 22:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					05/03/18 22:33	1
1,2-Dichloroethane-d4 (Surr)	101		73 - 131					05/03/18 22:33	1
Dibromofluoromethane (Surr)	106		80 - 122					05/03/18 22:33	1
4-Bromofluorobenzene (Surr)	99		80 - 120					05/03/18 22:33	1

Client Sample ID: SS-1

Date Collected: 04/19/18 15:20

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 10:50	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 10:50	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 10:50	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 10:50	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 10:50	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 10:50	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 10:50	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 10:50	1
2-Hexanone	<10		10		ug/L			05/03/18 10:50	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 10:50	1
Acetone	<10		10		ug/L			05/03/18 10:50	1
Benzene	<1.0		1.0		ug/L			05/03/18 10:50	1
Bromoform	<1.0		1.0		ug/L			05/03/18 10:50	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 10:50	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 10:50	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 10:50	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 10:50	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 10:50	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 10:50	1
Chloroform	<1.0		1.0		ug/L			05/03/18 10:50	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 10:50	1
cis-1,2-Dichloroethene	3.0		1.0		ug/L			05/03/18 10:50	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 10:50	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 10:50	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 10:50	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 10:50	1
Styrene	<1.0		1.0		ug/L			05/03/18 10:50	1
Tetrachloroethene	47		1.0		ug/L			05/03/18 10:50	1
Toluene	<1.0		1.0		ug/L			05/03/18 10:50	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 10:50	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 10:50	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: SS-1

Date Collected: 04/19/18 15:20

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	3.3		1.0		ug/L			05/03/18 10:50	1
Vinyl chloride	<1.0 *		1.0		ug/L			05/03/18 10:50	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 10:50	1
Surrogate									
Toluene-d8 (Surr)	102	%Recovery	Qualifier	Limits			Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100			80 - 120				05/03/18 10:50	1
Dibromofluoromethane (Surr)	104			73 - 131				05/03/18 10:50	1
4-Bromofluorobenzene (Surr)	97			80 - 122				05/03/18 10:50	1
				80 - 120					

Client Sample ID: SS-2

Date Collected: 04/19/18 15:25

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 11:11	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 11:11	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 11:11	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 11:11	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 11:11	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 11:11	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 11:11	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 11:11	1
2-Hexanone	<10		10		ug/L			05/03/18 11:11	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 11:11	1
Acetone	<10		10		ug/L			05/03/18 11:11	1
Benzene	<1.0		1.0		ug/L			05/03/18 11:11	1
Bromoform	<1.0		1.0		ug/L			05/03/18 11:11	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 11:11	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 11:11	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 11:11	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 11:11	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 11:11	1
Chloroethane	<5.0		5.0		ug/L			05/03/18 11:11	1
Chloroform	<1.0		1.0		ug/L			05/03/18 11:11	1
Chloromethane	<1.0		1.0		ug/L			05/03/18 11:11	1
cis-1,2-Dichloroethene	2.0		1.0		ug/L			05/03/18 11:11	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 11:11	1
Dichlorobromomethane	<1.0		1.0		ug/L			05/03/18 11:11	1
Ethylbenzene	<1.0		1.0		ug/L			05/03/18 11:11	1
Methylene Chloride	<5.0		5.0		ug/L			05/03/18 11:11	1
Styrene	<1.0		1.0		ug/L			05/03/18 11:11	1
Tetrachloroethene	32		1.0		ug/L			05/03/18 11:11	1
Toluene	<1.0		1.0		ug/L			05/03/18 11:11	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			05/03/18 11:11	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			05/03/18 11:11	1
Trichloroethene	2.2		1.0		ug/L			05/03/18 11:11	1
Vinyl chloride	<1.0 *		1.0		ug/L			05/03/18 11:11	1
Xylenes, Total	<1.0		1.0		ug/L			05/03/18 11:11	1

TestAmerica Savannah

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: SS-2

Date Collected: 04/19/18 15:25

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-16

Matrix: Water

Surrogate

%Recovery

Qualifier

Limits

Prepared

Analyzed

Dil Fac

Toluene-d8 (Surr)

101

80 - 120

05/03/18 11:11

1

1,2-Dichloroethane-d4 (Surr)

101

73 - 131

05/03/18 11:11

1

Dibromofluoromethane (Surr)

106

80 - 122

05/03/18 11:11

1

4-Bromofluorobenzene (Surr)

99

80 - 120

05/03/18 11:11

1

Client Sample ID: SS-3

Date Collected: 04/19/18 15:50

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-17

Matrix: Water

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

Analyte

Result

Qualifier

RL

MDL

Unit

D

Prepared

Analyzed

Dil Fac

1,1,1-Trichloroethane

<1.0

1.0

ug/L

05/03/18 11:33

1

1,1,2,2-Tetrachloroethane

<1.0

1.0

ug/L

05/03/18 11:33

1

1,1,2-Trichloroethane

<1.0

1.0

ug/L

05/03/18 11:33

1

1,1-Dichloroethane

<1.0

1.0

ug/L

05/03/18 11:33

1

1,1-Dichloroethene

<1.0

1.0

ug/L

05/03/18 11:33

1

1,2-Dichloroethane

<1.0

1.0

ug/L

05/03/18 11:33

1

1,2-Dichloropropane

<1.0

1.0

ug/L

05/03/18 11:33

1

2-Butanone (MEK)

<10

10

ug/L

05/03/18 11:33

1

2-Hexanone

<10

10

ug/L

05/03/18 11:33

1

4-Methyl-2-pentanone (MIBK)

<10

10

ug/L

05/03/18 11:33

1

Acetone

<10

10

ug/L

05/03/18 11:33

1

Benzene

<1.0

1.0

ug/L

05/03/18 11:33

1

Bromoform

<1.0

1.0

ug/L

05/03/18 11:33

1

Bromomethane

<5.0

5.0

ug/L

05/03/18 11:33

1

Carbon disulfide

<2.0

2.0

ug/L

05/03/18 11:33

1

Carbon tetrachloride

<1.0

1.0

ug/L

05/03/18 11:33

1

Chlorobenzene

<1.0

1.0

ug/L

05/03/18 11:33

1

Chlorodibromomethane

<1.0

1.0

ug/L

05/03/18 11:33

1

Chloroethane

<5.0

5.0

ug/L

05/03/18 11:33

1

Chloroform

<1.0

1.0

ug/L

05/03/18 11:33

1

Chloromethane

<1.0

1.0

ug/L

05/03/18 11:33

1

cis-1,2-Dichloroethene

2.5

1.0

ug/L

05/03/18 11:33

1

cis-1,3-Dichloropropene

<1.0

1.0

ug/L

05/03/18 11:33

1

Dichlorobromomethane

<1.0

1.0

ug/L

05/03/18 11:33

1

Ethylbenzene

<1.0

1.0

ug/L

05/03/18 11:33

1

Methylene Chloride

<5.0

5.0

ug/L

05/03/18 11:33

1

Styrene

<1.0

1.0

ug/L

05/03/18 11:33

1

Tetrachloroethene

25

1.0

ug/L

05/03/18 11:33

1

Toluene

<1.0

1.0

ug/L

05/03/18 11:33

1

trans-1,2-Dichloroethene

<1.0

1.0

ug/L

05/03/18 11:33

1

trans-1,3-Dichloropropene

<1.0

1.0

ug/L

05/03/18 11:33

1

Trichloroethene

2.1

1.0

ug/L

05/03/18 11:33

1

Vinyl chloride

<1.0 *

1.0

ug/L

05/03/18 11:33

1

Xylenes, Total

<1.0

1.0

ug/L

05/03/18 11:33

1

Surrogate

%Recovery

Qualifier

Limits

Prepared

Analyzed

Dil Fac

Toluene-d8 (Surr)

102

80 - 120

05/03/18 11:33

1

1,2-Dichloroethane-d4 (Surr)

101

73 - 131

05/03/18 11:33

1

Dibromofluoromethane (Surr)

106

80 - 122

05/03/18 11:33

1

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: SS-3

Date Collected: 04/19/18 15:50
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-17

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120		05/03/18 11:33	1

Client Sample ID: TRIP BLANK

Date Collected: 04/12/18 00:00
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	<1.0		1.0		ug/L			04/25/18 12:10	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			04/25/18 12:10	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			04/25/18 12:10	1
1,1-Dichloroethane	<1.0		1.0		ug/L			04/25/18 12:10	1
1,1-Dichloroethene	<1.0		1.0		ug/L			04/25/18 12:10	1
1,2-Dichloroethane	<1.0		1.0		ug/L			04/25/18 12:10	1
1,2-Dichloropropane	<1.0		1.0		ug/L			04/25/18 12:10	1
2-Butanone (MEK)	<10		10		ug/L			04/25/18 12:10	1
2-Hexanone	<10		10		ug/L			04/25/18 12:10	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			04/25/18 12:10	1
Acetone	<10		10		ug/L			04/25/18 12:10	1
Benzene	<1.0		1.0		ug/L			04/25/18 12:10	1
Bromoform	<1.0		1.0		ug/L			04/25/18 12:10	1
Bromomethane	<5.0		5.0		ug/L			04/25/18 12:10	1
Carbon disulfide	<2.0		2.0		ug/L			04/25/18 12:10	1
Carbon tetrachloride	<1.0		1.0		ug/L			04/25/18 12:10	1
Chlorobenzene	<1.0		1.0		ug/L			04/25/18 12:10	1
Chlorodibromomethane	<1.0		1.0		ug/L			04/25/18 12:10	1
Chloroethane	<5.0		5.0		ug/L			04/25/18 12:10	1
Chloroform	<1.0		1.0		ug/L			04/25/18 12:10	1
Chloromethane	<1.0		1.0		ug/L			04/25/18 12:10	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			04/25/18 12:10	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			04/25/18 12:10	1
Dichlorobromomethane	<1.0		1.0		ug/L			04/25/18 12:10	1
Ethylbenzene	<1.0		1.0		ug/L			04/25/18 12:10	1
Methylene Chloride	<5.0		5.0		ug/L			04/25/18 12:10	1
Styrene	<1.0		1.0		ug/L			04/25/18 12:10	1
Tetrachloroethene	<1.0		1.0		ug/L			04/25/18 12:10	1
Toluene	<1.0		1.0		ug/L			04/25/18 12:10	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			04/25/18 12:10	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			04/25/18 12:10	1
Trichloroethene	<1.0		1.0		ug/L			04/25/18 12:10	1
Vinyl chloride	<1.0		1.0		ug/L			04/25/18 12:10	1
Xylenes, Total	<1.0		1.0		ug/L			04/25/18 12:10	1
Surrogate	%Recovery	Qualifier	Limits			D	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101		80 - 120					04/25/18 12:10	1
1,2-Dichloroethane-d4 (Surr)	102		73 - 131					04/25/18 12:10	1
Dibromofluoromethane (Surr)	107		80 - 122					04/25/18 12:10	1
4-Bromofluorobenzene (Surr)	99		80 - 120					04/25/18 12:10	1

TestAmerica Savannah

Surrogate Summary

Client: EHS Support, LLC

TestAmerica Job ID: 680-151360-1

Project/Site: Ashland Alterman (Jonesboro)

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (73-131)	DBFM (80-122)	BFB (80-120)
680-151360-1	MW-13A	103	98	103	95
680-151360-2	MW-13B	102	98	103	96
680-151360-3	MW-19D	102	104	107	100
680-151360-4	MW-19C	102	104	106	98
680-151360-5	MW-19B	101	99	104	98
680-151360-5 - DL	MW-19B	107	107	101	97
680-151360-6	MW-16B	103	103	106	97
680-151360-7	MW-16C	102	104	106	96
680-151360-8	MW-16A	102	105	108	98
680-151360-9	MW-20C	102	104	107	98
680-151360-10	MW-15A	101	100	106	98
680-151360-10 - DL	MW-15A	107	99	106	92
680-151360-11	MW-15B	101	101	107	99
680-151360-12	DUP-1	102	102	107	100
680-151360-13	EB-1	77 X	101	92	108
680-151360-13 - RA	EB-1	7 X	101	109	101
680-151360-14	OF-1	101	101	106	99
680-151360-15	SS-1	102	100	104	97
680-151360-16	SS-2	101	101	106	99
680-151360-17	SS-3	102	101	106	98
680-151360-18	TRIP BLANK	101	102	107	99
LCS 680-521365/3	Lab Control Sample	103	101	106	99
LCS 680-522369/4	Lab Control Sample	95	105	96	99
LCS 680-522487/4	Lab Control Sample	102	97	101	97
LCS 680-522622/4	Lab Control Sample	99	94	100	96
LCS 680-522665/5	Lab Control Sample	87	96	98	90
LCSD 680-521365/4	Lab Control Sample Dup	103	99	105	100
LCSD 680-522369/5	Lab Control Sample Dup	92	103	96	96
LCSD 680-522487/6	Lab Control Sample Dup	99	96	99	93
LCSD 680-522622/5	Lab Control Sample Dup	100	97	101	96
LCSD 680-522665/6	Lab Control Sample Dup	92	90	87	88
MB 680-521365/7	Method Blank	101	100	106	99
MB 680-522369/9	Method Blank	96	101	93	107
MB 680-522487/9	Method Blank	101	99	106	98
MB 680-522622/8	Method Blank	101	101	107	98
MB 680-522665/9	Method Blank	96	97	92	90

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

DBFM = Dibromofluoromethane (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: MB 680-521365/7

Matrix: Water

Analysis Batch: 521365

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Dil Fac						
	Result	Qualifier		RL	MDL	Unit	D	Prepared	Analyzed
1,1,1-Trichloroethane	<1.0			1.0		ug/L		04/25/18 11:05	1
1,1,2,2-Tetrachloroethane	<1.0			1.0		ug/L		04/25/18 11:05	1
1,1,2-Trichloroethane	<1.0			1.0		ug/L		04/25/18 11:05	1
1,1-Dichloroethane	<1.0			1.0		ug/L		04/25/18 11:05	1
1,1-Dichloroethene	<1.0			1.0		ug/L		04/25/18 11:05	1
1,2-Dichloroethane	<1.0			1.0		ug/L		04/25/18 11:05	1
1,2-Dichloropropane	<1.0			1.0		ug/L		04/25/18 11:05	1
2-Butanone (MEK)	<10			10		ug/L		04/25/18 11:05	1
2-Hexanone	<10			10		ug/L		04/25/18 11:05	1
4-Methyl-2-pentanone (MIBK)	<10			10		ug/L		04/25/18 11:05	1
Acetone	<10			10		ug/L		04/25/18 11:05	1
Benzene	<1.0			1.0		ug/L		04/25/18 11:05	1
Bromoform	<1.0			1.0		ug/L		04/25/18 11:05	1
Bromomethane	<5.0			5.0		ug/L		04/25/18 11:05	1
Carbon disulfide	<2.0			2.0		ug/L		04/25/18 11:05	1
Carbon tetrachloride	<1.0			1.0		ug/L		04/25/18 11:05	1
Chlorobenzene	<1.0			1.0		ug/L		04/25/18 11:05	1
Chlorodibromomethane	<1.0			1.0		ug/L		04/25/18 11:05	1
Chloroethane	<5.0			5.0		ug/L		04/25/18 11:05	1
Chloroform	<1.0			1.0		ug/L		04/25/18 11:05	1
Chloromethane	<1.0			1.0		ug/L		04/25/18 11:05	1
cis-1,2-Dichloroethene	<1.0			1.0		ug/L		04/25/18 11:05	1
cis-1,3-Dichloropropene	<1.0			1.0		ug/L		04/25/18 11:05	1
Dichlorobromomethane	<1.0			1.0		ug/L		04/25/18 11:05	1
Ethylbenzene	<1.0			1.0		ug/L		04/25/18 11:05	1
Methylene Chloride	<5.0			5.0		ug/L		04/25/18 11:05	1
Styrene	<1.0			1.0		ug/L		04/25/18 11:05	1
Tetrachloroethene	<1.0			1.0		ug/L		04/25/18 11:05	1
Toluene	<1.0			1.0		ug/L		04/25/18 11:05	1
trans-1,2-Dichloroethene	<1.0			1.0		ug/L		04/25/18 11:05	1
trans-1,3-Dichloropropene	<1.0			1.0		ug/L		04/25/18 11:05	1
Trichloroethene	<1.0			1.0		ug/L		04/25/18 11:05	1
Vinyl chloride	<1.0			1.0		ug/L		04/25/18 11:05	1
Xylenes, Total	<1.0			1.0		ug/L		04/25/18 11:05	1

Surrogate	MB	MB	Dil Fac				
	%Recovery	Qualifier		Prepared	Analyzed		
Toluene-d8 (Surr)	101		80 - 120			04/25/18 11:05	1
1,2-Dichloroethane-d4 (Surr)	100		73 - 131			04/25/18 11:05	1
Dibromofluoromethane (Surr)	106		80 - 122			04/25/18 11:05	1
4-Bromofluorobenzene (Surr)	99		80 - 120			04/25/18 11:05	1

Lab Sample ID: LCS 680-521365/3

Matrix: Water

Analysis Batch: 521365

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

Analyte	Spike	LCS	LCS	Dil Fac	%Rec.	
	Added	Result	Qualifier		Unit	%Rec
1,1,1-Trichloroethane	50.0	52.5		105	ug/L	80 - 120
1,1,2,2-Tetrachloroethane	50.0	51.3		103	ug/L	76 - 126

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCS 680-521365/3

Matrix: Water

Analysis Batch: 521365

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

Analyte	Spike	LCS		Unit	D	%Rec	Limits	%Rec.
	Added	Result	Qualifier					
1,1,2-Trichloroethane	50.0	54.0		ug/L		108	80 - 120	
1,1-Dichloroethane	50.0	51.7		ug/L		103	80 - 120	
1,1-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	
1,2-Dichloroethane	50.0	52.0		ug/L		104	72 - 128	
1,2-Dichloropropane	50.0	53.2		ug/L		106	80 - 120	
2-Butanone (MEK)	250	274		ug/L		110	79 - 125	
2-Hexanone	250	264		ug/L		106	80 - 131	
4-Methyl-2-pentanone (MIBK)	250	268		ug/L		107	80 - 134	
Acetone	250	284		ug/L		114	68 - 132	
Benzene	50.0	51.4		ug/L		103	80 - 120	
Bromoform	50.0	53.2		ug/L		106	52 - 122	
Bromomethane	50.0	28.9		ug/L		58	43 - 146	
Carbon disulfide	50.0	52.2		ug/L		104	77 - 129	
Carbon tetrachloride	50.0	53.1		ug/L		106	67 - 125	
Chlorobenzene	50.0	51.9		ug/L		104	80 - 120	
Chlorodibromomethane	50.0	54.7		ug/L		109	68 - 120	
Chloroethane	50.0	53.9		ug/L		108	48 - 145	
Chloroform	50.0	53.0		ug/L		106	80 - 120	
Chloromethane	50.0	48.9		ug/L		98	76 - 149	
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	80 - 120	
cis-1,3-Dichloropropene	50.0	55.6		ug/L		111	80 - 129	
Dichlorobromomethane	50.0	54.3		ug/L		109	80 - 120	
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120	
Methylene Chloride	50.0	52.7		ug/L		105	80 - 120	
Styrene	50.0	52.6		ug/L		105	80 - 126	
Tetrachloroethene	50.0	52.1		ug/L		104	71 - 123	
Toluene	50.0	52.1		ug/L		104	80 - 120	
trans-1,2-Dichloroethene	50.0	52.2		ug/L		104	80 - 120	
trans-1,3-Dichloropropene	50.0	54.4		ug/L		109	80 - 128	
Trichloroethene	50.0	52.8		ug/L		106	80 - 120	
Vinyl chloride	50.0	44.0		ug/L		88	80 - 129	
Xylenes, Total	100	104		ug/L		104	80 - 120	

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	101		73 - 131
Dibromofluoromethane (Surr)	106		80 - 122
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-521365/4

Matrix: Water

Analysis Batch: 521365

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

Analyte	Spike	LCSD		Unit	D	%Rec	Limits	%Rec.	RPD	Limit
	Added	Result	Qualifier							
1,1,1-Trichloroethane	50.0	51.5		ug/L		103	80 - 120		2	20
1,1,2,2-Tetrachloroethane	50.0	51.1		ug/L		102	76 - 126		0	20
1,1,2-Trichloroethane	50.0	53.1		ug/L		106	80 - 120		2	20
1,1-Dichloroethane	50.0	51.4		ug/L		103	80 - 120		1	20

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCSD 680-521365/4

Matrix: Water

Analysis Batch: 521365

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD
	Added	Result	Qualifier						
1,1-Dichloroethene	50.0	49.4		ug/L		99	80 - 120	6	20
1,2-Dichloroethane	50.0	51.8		ug/L		104	72 - 128	0	50
1,2-Dichloropropane	50.0	52.5		ug/L		105	80 - 120	1	20
2-Butanone (MEK)	250	279		ug/L		112	79 - 125	2	20
2-Hexanone	250	269		ug/L		108	80 - 131	2	20
4-Methyl-2-pentanone (MIBK)	250	268		ug/L		107	80 - 134	0	20
Acetone	250	289		ug/L		116	68 - 132	2	30
Benzene	50.0	51.0		ug/L		102	80 - 120	1	20
Bromoform	50.0	52.8		ug/L		106	52 - 122	1	20
Bromomethane	50.0	29.6		ug/L		59	43 - 146	3	20
Carbon disulfide	50.0	51.0		ug/L		102	77 - 129	2	20
Carbon tetrachloride	50.0	50.4		ug/L		101	67 - 125	5	20
Chlorobenzene	50.0	51.8		ug/L		104	80 - 120	0	20
Chlorodibromomethane	50.0	54.5		ug/L		109	68 - 120	1	20
Chloroethane	50.0	52.8		ug/L		106	48 - 145	2	20
Chloroform	50.0	52.3		ug/L		105	80 - 120	1	20
Chloromethane	50.0	47.5		ug/L		95	76 - 149	3	30
cis-1,2-Dichloroethene	50.0	51.3		ug/L		103	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	80 - 129	2	20
Dichlorobromomethane	50.0	53.9		ug/L		108	80 - 120	1	20
Ethylbenzene	50.0	51.6		ug/L		103	80 - 120	0	20
Methylene Chloride	50.0	53.5		ug/L		107	80 - 120	1	20
Styrene	50.0	52.5		ug/L		105	80 - 126	0	20
Tetrachloroethene	50.0	51.9		ug/L		104	71 - 123	0	20
Toluene	50.0	51.7		ug/L		103	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	53.9		ug/L		108	80 - 128	1	30
Trichloroethene	50.0	51.8		ug/L		104	80 - 120	2	20
Vinyl chloride	50.0	50.8		ug/L		102	80 - 129	14	20
Xylenes, Total	100	105		ug/L		105	80 - 120	0	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	99		73 - 131
Dibromofluoromethane (Surr)	105		80 - 122
4-Bromofluorobenzene (Surr)	100		80 - 120

Lab Sample ID: MB 680-522369/9

Matrix: Water

Analysis Batch: 522369

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/02/18 13:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/02/18 13:04	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/02/18 13:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/02/18 13:04	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/02/18 13:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/02/18 13:04	1

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: MB 680-522369/9

Matrix: Water

Analysis Batch: 522369

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	<1.0				1.0		ug/L			05/02/18 13:04	1
2-Butanone (MEK)	<10				10		ug/L			05/02/18 13:04	1
2-Hexanone	<10				10		ug/L			05/02/18 13:04	1
4-Methyl-2-pentanone (MIBK)	<10				10		ug/L			05/02/18 13:04	1
Acetone	<10				10		ug/L			05/02/18 13:04	1
Benzene	<1.0				1.0		ug/L			05/02/18 13:04	1
Bromoform	<1.0				1.0		ug/L			05/02/18 13:04	1
Bromomethane	<5.0				5.0		ug/L			05/02/18 13:04	1
Carbon disulfide	<2.0				2.0		ug/L			05/02/18 13:04	1
Carbon tetrachloride	<1.0				1.0		ug/L			05/02/18 13:04	1
Chlorobenzene	<1.0				1.0		ug/L			05/02/18 13:04	1
Chlorodibromomethane	<1.0				1.0		ug/L			05/02/18 13:04	1
Chloroethane	<5.0				5.0		ug/L			05/02/18 13:04	1
Chloroform	<1.0				1.0		ug/L			05/02/18 13:04	1
Chloromethane	<1.0				1.0		ug/L			05/02/18 13:04	1
cis-1,2-Dichloroethene	<1.0				1.0		ug/L			05/02/18 13:04	1
cis-1,3-Dichloropropene	<1.0				1.0		ug/L			05/02/18 13:04	1
Dichlorobromomethane	<1.0				1.0		ug/L			05/02/18 13:04	1
Ethylbenzene	<1.0				1.0		ug/L			05/02/18 13:04	1
Methylene Chloride	<5.0				5.0		ug/L			05/02/18 13:04	1
Styrene	<1.0				1.0		ug/L			05/02/18 13:04	1
Tetrachloroethene	<1.0				1.0		ug/L			05/02/18 13:04	1
Toluene	<1.0				1.0		ug/L			05/02/18 13:04	1
trans-1,2-Dichloroethene	<1.0				1.0		ug/L			05/02/18 13:04	1
trans-1,3-Dichloropropene	<1.0				1.0		ug/L			05/02/18 13:04	1
Trichloroethene	<1.0				1.0		ug/L			05/02/18 13:04	1
Vinyl chloride	<1.0				1.0		ug/L			05/02/18 13:04	1
Xylenes, Total	<1.0				1.0		ug/L			05/02/18 13:04	1

MB MB

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	96		96		80 - 120			1
1,2-Dichloroethane-d4 (Surr)	101		101		73 - 131			1
Dibromofluoromethane (Surr)	93		93		80 - 122			1
4-Bromofluorobenzene (Surr)	107		107		80 - 120			1

Lab Sample ID: LCS 680-522369/4

Matrix: Water

Analysis Batch: 522369

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike		LCS	LCS	Unit	D	%Rec.	Limits
	Added		Result	Qualifier				
1,1,1-Trichloroethane	50.0		56.4		ug/L		113	80 - 120
1,1,2,2-Tetrachloroethane	50.0		43.8		ug/L		88	76 - 126
1,1,2-Trichloroethane	50.0		47.9		ug/L		96	80 - 120
1,1-Dichloroethane	50.0		51.3		ug/L		103	80 - 120
1,1-Dichloroethene	50.0		48.7		ug/L		97	80 - 120
1,2-Dichloroethane	50.0		54.4		ug/L		109	72 - 128
1,2-Dichloropropane	50.0		52.3		ug/L		105	80 - 120
2-Butanone (MEK)	250		221		ug/L		88	79 - 125

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCS 680-522369/4

Matrix: Water

Analysis Batch: 522369

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

Analyte	Spike Added	LCS		Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
2-Hexanone	250	261		ug/L		105	80 - 131	
4-Methyl-2-pentanone (MIBK)	250	256		ug/L		102	80 - 134	
Acetone	250	227		ug/L		91	68 - 132	
Benzene	50.0	50.0		ug/L		100	80 - 120	
Bromoform	50.0	45.0		ug/L		90	52 - 122	
Bromomethane	50.0	45.8		ug/L		92	43 - 146	
Carbon disulfide	50.0	54.7		ug/L		109	77 - 129	
Carbon tetrachloride	50.0	58.0		ug/L		116	67 - 125	
Chlorobenzene	50.0	46.1		ug/L		92	80 - 120	
Chlorodibromomethane	50.0	50.5		ug/L		101	68 - 120	
Chloroethane	50.0	49.0		ug/L		98	48 - 145	
Chloroform	50.0	51.3		ug/L		103	80 - 120	
Chloromethane	50.0	71.3		ug/L		143	76 - 149	
cis-1,2-Dichloroethene	50.0	52.1		ug/L		104	80 - 120	
cis-1,3-Dichloropropene	50.0	51.4		ug/L		103	80 - 129	
Dichlorobromomethane	50.0	52.6		ug/L		105	80 - 120	
Ethylbenzene	50.0	49.3		ug/L		99	80 - 120	
Methylene Chloride	50.0	48.6		ug/L		97	80 - 120	
Styrene	50.0	47.3		ug/L		95	80 - 126	
Tetrachloroethene	50.0	51.3		ug/L		103	71 - 123	
Toluene	50.0	51.8		ug/L		104	80 - 120	
trans-1,2-Dichloroethene	50.0	47.8		ug/L		96	80 - 120	
trans-1,3-Dichloropropene	50.0	53.2		ug/L		106	80 - 128	
Trichloroethene	50.0	49.6		ug/L		99	80 - 120	
Vinyl chloride	50.0	53.4		ug/L		107	80 - 129	
Xylenes, Total	100	97.7		ug/L		98	80 - 120	

Surrogate	LCS		Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	95		80 - 120
1,2-Dichloroethane-d4 (Surr)	105		73 - 131
Dibromofluoromethane (Surr)	96		80 - 122
4-Bromofluorobenzene (Surr)	99		80 - 120

Lab Sample ID: LCSD 680-522369/5

Matrix: Water

Analysis Batch: 522369

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

Analyte	Spike Added	LCSD		Unit	D	%Rec	Limits	%Rec.	RPD	Limit
		Result	Qualifier							
1,1,1-Trichloroethane	50.0	55.4		ug/L		111	80 - 120	2	20	
1,1,2,2-Tetrachloroethane	50.0	41.8		ug/L		84	76 - 126	5	20	
1,1,2-Trichloroethane	50.0	47.4		ug/L		95	80 - 120	1	20	
1,1-Dichloroethane	50.0	50.6		ug/L		101	80 - 120	1	20	
1,1-Dichloroethene	50.0	47.8		ug/L		96	80 - 120	2	20	
1,2-Dichloroethane	50.0	53.3		ug/L		107	72 - 128	2	50	
1,2-Dichloropropane	50.0	51.4		ug/L		103	80 - 120	2	20	
2-Butanone (MEK)	250	211		ug/L		84	79 - 125	5	20	
2-Hexanone	250	256		ug/L		102	80 - 131	2	20	
4-Methyl-2-pentanone (MIBK)	250	251		ug/L		100	80 - 134	2	20	

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QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCSD 680-522369/5

Matrix: Water

Analysis Batch: 522369

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD	Limit
	Added	Result	Qualifier							
Acetone	250	226		ug/L		90	68 - 132	1		30
Benzene	50.0	49.6		ug/L		99	80 - 120	1		20
Bromoform	50.0	43.5		ug/L		87	52 - 122	3		20
Bromomethane	50.0	49.0		ug/L		98	43 - 146	7		20
Carbon disulfide	50.0	54.2		ug/L		108	77 - 129	1		20
Carbon tetrachloride	50.0	57.5		ug/L		115	67 - 125	1		20
Chlorobenzene	50.0	44.9		ug/L		90	80 - 120	3		20
Chlorodibromomethane	50.0	50.0		ug/L		100	68 - 120	1		20
Chloroethane	50.0	50.0		ug/L		100	48 - 145	2		20
Chloroform	50.0	49.9		ug/L		100	80 - 120	3		20
Chloromethane	50.0	70.1		ug/L		140	76 - 149	2		30
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120	1		20
cis-1,3-Dichloropropene	50.0	50.6		ug/L		101	80 - 129	2		20
Dichlorobromomethane	50.0	51.7		ug/L		103	80 - 120	2		20
Ethylbenzene	50.0	47.8		ug/L		96	80 - 120	3		20
Methylene Chloride	50.0	47.9		ug/L		96	80 - 120	1		20
Styrene	50.0	46.3		ug/L		93	80 - 126	2		20
Tetrachloroethene	50.0	50.9		ug/L		102	71 - 123	1		20
Toluene	50.0	51.2		ug/L		102	80 - 120	1		20
trans-1,2-Dichloroethene	50.0	47.5		ug/L		95	80 - 120	1		20
trans-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 128	1		30
Trichloroethene	50.0	49.5		ug/L		99	80 - 120	0		20
Vinyl chloride	50.0	52.9		ug/L		106	80 - 129	1		20
Xylenes, Total	100	95.5		ug/L		96	80 - 120	2		20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		73 - 131
Dibromofluoromethane (Surr)	96		80 - 122
4-Bromofluorobenzene (Surr)	96		80 - 120

Lab Sample ID: MB 680-522487/9

Matrix: Water

Analysis Batch: 522487

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 10:28	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 10:28	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 10:28	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 10:28	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 10:28	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 10:28	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 10:28	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 10:28	1
2-Hexanone	<10		10		ug/L			05/03/18 10:28	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 10:28	1
Acetone	<10		10		ug/L			05/03/18 10:28	1
Benzene	<1.0		1.0		ug/L			05/03/18 10:28	1

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: MB 680-522487/9

Matrix: Water

Analysis Batch: 522487

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	<1.0				1.0		ug/L			05/03/18 10:28	1
Bromomethane	<5.0				5.0		ug/L			05/03/18 10:28	1
Carbon disulfide	<2.0				2.0		ug/L			05/03/18 10:28	1
Carbon tetrachloride	<1.0				1.0		ug/L			05/03/18 10:28	1
Chlorobenzene	<1.0				1.0		ug/L			05/03/18 10:28	1
Chlorodibromomethane	<1.0				1.0		ug/L			05/03/18 10:28	1
Chloroethane	<5.0				5.0		ug/L			05/03/18 10:28	1
Chloroform	<1.0				1.0		ug/L			05/03/18 10:28	1
Chloromethane	<1.0				1.0		ug/L			05/03/18 10:28	1
cis-1,2-Dichloroethene	<1.0				1.0		ug/L			05/03/18 10:28	1
cis-1,3-Dichloropropene	<1.0				1.0		ug/L			05/03/18 10:28	1
Dichlorobromomethane	<1.0				1.0		ug/L			05/03/18 10:28	1
Ethylbenzene	<1.0				1.0		ug/L			05/03/18 10:28	1
Methylene Chloride	<5.0				5.0		ug/L			05/03/18 10:28	1
Styrene	<1.0				1.0		ug/L			05/03/18 10:28	1
Tetrachloroethene	<1.0				1.0		ug/L			05/03/18 10:28	1
Toluene	<1.0				1.0		ug/L			05/03/18 10:28	1
trans-1,2-Dichloroethene	<1.0				1.0		ug/L			05/03/18 10:28	1
trans-1,3-Dichloropropene	<1.0				1.0		ug/L			05/03/18 10:28	1
Trichloroethene	<1.0				1.0		ug/L			05/03/18 10:28	1
Vinyl chloride	<1.0				1.0		ug/L			05/03/18 10:28	1
Xylenes, Total	<1.0				1.0		ug/L			05/03/18 10:28	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	101				80 - 120			05/03/18 10:28	1
1,2-Dichloroethane-d4 (Surr)	99				73 - 131			05/03/18 10:28	1
Dibromofluoromethane (Surr)	106				80 - 122			05/03/18 10:28	1
4-Bromofluorobenzene (Surr)	98				80 - 120			05/03/18 10:28	1

Lab Sample ID: LCS 680-522487/4

Matrix: Water

Analysis Batch: 522487

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
1,1,1-Trichloroethane	50.0	51.4		ug/L		103	80 - 120
1,1,2,2-Tetrachloroethane	50.0	52.8		ug/L		106	76 - 126
1,1,2-Trichloroethane	50.0	53.9		ug/L		108	80 - 120
1,1-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,1-Dichloroethene	50.0	55.0		ug/L		110	80 - 120
1,2-Dichloroethane	50.0	51.2		ug/L		102	72 - 128
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120
2-Butanone (MEK)	250	266		ug/L		106	79 - 125
2-Hexanone	250	273		ug/L		109	80 - 131
4-Methyl-2-pentanone (MIBK)	250	274		ug/L		109	80 - 134
Acetone	250	281		ug/L		112	68 - 132
Benzene	50.0	50.6		ug/L		101	80 - 120
Bromoform	50.0	52.3		ug/L		105	52 - 122
Bromomethane	50.0	34.0		ug/L		68	43 - 146

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCS 680-522487/4

Matrix: Water

Analysis Batch: 522487

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

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Carbon disulfide	50.0	53.2		ug/L		106	77 - 129
Carbon tetrachloride	50.0	51.7		ug/L		103	67 - 125
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120
Chlorodibromomethane	50.0	53.8		ug/L		108	68 - 120
Chloroethane	50.0	50.6		ug/L		101	48 - 145
Chloroform	50.0	51.4		ug/L		103	80 - 120
Chloromethane	50.0	58.6		ug/L		117	76 - 149
cis-1,2-Dichloroethene	50.0	50.8		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 129
Dichlorobromomethane	50.0	52.5		ug/L		105	80 - 120
Ethylbenzene	50.0	51.5		ug/L		103	80 - 120
Methylene Chloride	50.0	54.6		ug/L		109	80 - 120
Styrene	50.0	52.5		ug/L		105	80 - 126
Tetrachloroethene	50.0	51.6		ug/L		103	71 - 123
Toluene	50.0	50.9		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 128
Trichloroethene	50.0	51.1		ug/L		102	80 - 120
Vinyl chloride	50.0	47.3		ug/L		95	80 - 129
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	102		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Dibromofluoromethane (Surr)	101		80 - 122
4-Bromofluorobenzene (Surr)	97		80 - 120

Lab Sample ID: LCSD 680-522487/6

Matrix: Water

Analysis Batch: 522487

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

Analyte	Spike	LCSD		Unit	D	%Rec	%Rec.	RPD	RPD Limit
	Added	Result	Qualifier						
1,1,1-Trichloroethane	50.0	50.5		ug/L		101	80 - 120	2	20
1,1,2,2-Tetrachloroethane	50.0	50.9		ug/L		102	76 - 126	4	20
1,1,2-Trichloroethane	50.0	52.4		ug/L		105	80 - 120	3	20
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120	1	20
1,1-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	5	20
1,2-Dichloroethane	50.0	50.5		ug/L		101	72 - 128	1	50
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120	1	20
2-Butanone (MEK)	250	270		ug/L		108	79 - 125	1	20
2-Hexanone	250	272		ug/L		109	80 - 131	0	20
4-Methyl-2-pentanone (MIBK)	250	272		ug/L		109	80 - 134	1	20
Acetone	250	279		ug/L		112	68 - 132	1	30
Benzene	50.0	49.9		ug/L		100	80 - 120	1	20
Bromoform	50.0	51.0		ug/L		102	52 - 122	2	20
Bromomethane	50.0	34.4		ug/L		69	43 - 146	1	20
Carbon disulfide	50.0	51.1		ug/L		102	77 - 129	4	20
Carbon tetrachloride	50.0	50.6		ug/L		101	67 - 125	2	20

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCSD 680-522487/6

Matrix: Water

Analysis Batch: 522487

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

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	Limits	RPD	RPD Limit
	Added	Result	Qualifier						
Chlorobenzene	50.0	49.3		ug/L		99	80 - 120	4	20
Chlorodibromomethane	50.0	52.6		ug/L		105	68 - 120	2	20
Chloroethane	50.0	46.0		ug/L		92	48 - 145	10	20
Chloroform	50.0	50.3		ug/L		101	80 - 120	2	20
Chloromethane	50.0	60.2		ug/L		120	76 - 149	3	30
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	53.0		ug/L		106	80 - 129	1	20
Dichlorobromomethane	50.0	51.8		ug/L		104	80 - 120	1	20
Ethylbenzene	50.0	49.5		ug/L		99	80 - 120	4	20
Methylene Chloride	50.0	53.6		ug/L		107	80 - 120	2	20
Styrene	50.0	50.7		ug/L		101	80 - 126	4	20
Tetrachloroethene	50.0	51.1		ug/L		102	71 - 123	1	20
Toluene	50.0	50.3		ug/L		101	80 - 120	1	20
trans-1,2-Dichloroethene	50.0	50.7		ug/L		101	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 128	2	30
Trichloroethene	50.0	50.1		ug/L		100	80 - 120	2	20
Vinyl chloride	50.0	38.5 *		ug/L		77	80 - 129	21	20
Xylenes, Total	100	99.5		ug/L		100	80 - 120	4	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	96		73 - 131
Dibromofluoromethane (Surr)	99		80 - 122
4-Bromofluorobenzene (Surr)	93		80 - 120

Lab Sample ID: MB 680-522622/8

Matrix: Water

Analysis Batch: 522622

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,1,1-Trichloroethane	<1.0		1.0		ug/L			05/03/18 20:45	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			05/03/18 20:45	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			05/03/18 20:45	1
1,1-Dichloroethane	<1.0		1.0		ug/L			05/03/18 20:45	1
1,1-Dichloroethene	<1.0		1.0		ug/L			05/03/18 20:45	1
1,2-Dichloroethane	<1.0		1.0		ug/L			05/03/18 20:45	1
1,2-Dichloropropane	<1.0		1.0		ug/L			05/03/18 20:45	1
2-Butanone (MEK)	<10		10		ug/L			05/03/18 20:45	1
2-Hexanone	<10		10		ug/L			05/03/18 20:45	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			05/03/18 20:45	1
Acetone	<10		10		ug/L			05/03/18 20:45	1
Benzene	<1.0		1.0		ug/L			05/03/18 20:45	1
Bromoform	<1.0		1.0		ug/L			05/03/18 20:45	1
Bromomethane	<5.0		5.0		ug/L			05/03/18 20:45	1
Carbon disulfide	<2.0		2.0		ug/L			05/03/18 20:45	1
Carbon tetrachloride	<1.0		1.0		ug/L			05/03/18 20:45	1
Chlorobenzene	<1.0		1.0		ug/L			05/03/18 20:45	1
Chlorodibromomethane	<1.0		1.0		ug/L			05/03/18 20:45	1

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: MB 680-522622/8

Matrix: Water

Analysis Batch: 522622

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	<5.0				5.0		ug/L			05/03/18 20:45	1
Chloroform	<1.0				1.0		ug/L			05/03/18 20:45	1
Chloromethane	<1.0				1.0		ug/L			05/03/18 20:45	1
cis-1,2-Dichloroethene	<1.0				1.0		ug/L			05/03/18 20:45	1
cis-1,3-Dichloropropene	<1.0				1.0		ug/L			05/03/18 20:45	1
Dichlorobromomethane	<1.0				1.0		ug/L			05/03/18 20:45	1
Ethylbenzene	<1.0				1.0		ug/L			05/03/18 20:45	1
Methylene Chloride	<5.0				5.0		ug/L			05/03/18 20:45	1
Styrene	<1.0				1.0		ug/L			05/03/18 20:45	1
Tetrachloroethene	<1.0				1.0		ug/L			05/03/18 20:45	1
Toluene	<1.0				1.0		ug/L			05/03/18 20:45	1
trans-1,2-Dichloroethene	<1.0				1.0		ug/L			05/03/18 20:45	1
trans-1,3-Dichloropropene	<1.0				1.0		ug/L			05/03/18 20:45	1
Trichloroethene	<1.0				1.0		ug/L			05/03/18 20:45	1
Vinyl chloride	<1.0				1.0		ug/L			05/03/18 20:45	1
Xylenes, Total	<1.0				1.0		ug/L			05/03/18 20:45	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits		Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)			101		80 - 120			05/03/18 20:45	1
1,2-Dichloroethane-d4 (Surr)			101		73 - 131			05/03/18 20:45	1
Dibromofluoromethane (Surr)			107		80 - 122			05/03/18 20:45	1
4-Bromofluorobenzene (Surr)			98		80 - 120			05/03/18 20:45	1

Lab Sample ID: LCS 680-522622/4

Matrix: Water

Analysis Batch: 522622

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

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
1,1,1-Trichloroethane	50.0	51.1		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	76 - 126
1,1,2-Trichloroethane	50.0	52.1		ug/L		104	80 - 120
1,1-Dichloroethane	50.0	50.1		ug/L		100	80 - 120
1,1-Dichloroethene	50.0	49.9		ug/L		100	80 - 120
1,2-Dichloroethane	50.0	49.4		ug/L		99	72 - 128
1,2-Dichloropropane	50.0	52.1		ug/L		104	80 - 120
2-Butanone (MEK)	250	275		ug/L		110	79 - 125
2-Hexanone	250	272		ug/L		109	80 - 131
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	80 - 134
Acetone	250	292		ug/L		117	68 - 132
Benzene	50.0	49.4		ug/L		99	80 - 120
Bromoform	50.0	51.6		ug/L		103	52 - 122
Bromomethane	50.0	19.9 *		ug/L		40	43 - 146
Carbon disulfide	50.0	49.9		ug/L		100	77 - 129
Carbon tetrachloride	50.0	49.9		ug/L		100	67 - 125
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120
Chlorodibromomethane	50.0	53.4		ug/L		107	68 - 120
Chloroethane	50.0	42.9		ug/L		86	48 - 145
Chloroform	50.0	51.5		ug/L		103	80 - 120

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCS 680-522622/4

Matrix: Water

Analysis Batch: 522622

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

Analyte	Spike	LCS		Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Chloromethane	50.0	45.5		ug/L		91	76 - 149
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	54.5		ug/L		109	80 - 129
Dichlorobromomethane	50.0	51.6		ug/L		103	80 - 120
Ethylbenzene	50.0	49.9		ug/L		100	80 - 120
Methylene Chloride	50.0	52.1		ug/L		104	80 - 120
Styrene	50.0	49.7		ug/L		99	80 - 126
Tetrachloroethene	50.0	50.5		ug/L		101	71 - 123
Toluene	50.0	50.6		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	51.9		ug/L		104	80 - 120
trans-1,3-Dichloropropene	50.0	51.4		ug/L		103	80 - 128
Trichloroethene	50.0	50.9		ug/L		102	80 - 120
Vinyl chloride	50.0	48.5		ug/L		97	80 - 129
Xylenes, Total	100	101		ug/L		101	80 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	99		80 - 120
1,2-Dichloroethane-d4 (Surr)	94		73 - 131
Dibromofluoromethane (Surr)	100		80 - 122
4-Bromofluorobenzene (Surr)	96		80 - 120

Lab Sample ID: LCSD 680-522622/5

Matrix: Water

Analysis Batch: 522622

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

Analyte	Spike	LCSD		Unit	D	%Rec	Limits	RPD	Limit
	Added	Result	Qualifier						
1,1,1-Trichloroethane	50.0	51.0		ug/L		102	80 - 120	0	20
1,1,2,2-Tetrachloroethane	50.0	51.9		ug/L		104	76 - 126	3	20
1,1,2-Trichloroethane	50.0	53.2		ug/L		106	80 - 120	2	20
1,1-Dichloroethane	50.0	49.8		ug/L		100	80 - 120	1	20
1,1-Dichloroethene	50.0	50.1		ug/L		100	80 - 120	1	20
1,2-Dichloroethane	50.0	51.0		ug/L		102	72 - 128	3	50
1,2-Dichloropropane	50.0	52.3		ug/L		105	80 - 120	0	20
2-Butanone (MEK)	250	284		ug/L		114	79 - 125	3	20
2-Hexanone	250	280		ug/L		112	80 - 131	3	20
4-Methyl-2-pentanone (MIBK)	250	274		ug/L		110	80 - 134	3	20
Acetone	250	307		ug/L		123	68 - 132	5	30
Benzene	50.0	49.5		ug/L		99	80 - 120	0	20
Bromoform	50.0	52.8		ug/L		106	52 - 122	2	20
Bromomethane	50.0	21.5		ug/L		43	43 - 146	8	20
Carbon disulfide	50.0	50.2		ug/L		100	77 - 129	1	20
Carbon tetrachloride	50.0	49.6		ug/L		99	67 - 125	1	20
Chlorobenzene	50.0	50.3		ug/L		101	80 - 120	0	20
Chlorodibromomethane	50.0	53.9		ug/L		108	68 - 120	1	20
Chloroethane	50.0	44.8		ug/L		90	48 - 145	4	20
Chloroform	50.0	51.1		ug/L		102	80 - 120	1	20
Chloromethane	50.0	45.7		ug/L		91	76 - 149	0	30
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	0	20

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QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCSD 680-522622/5

Matrix: Water

Analysis Batch: 522622

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

Analyte	Spike Added	LCSD		Unit	D	%Rec.		RPD	RPD Limit
		Result	Qualifier			%Rec	Limits		
cis-1,3-Dichloropropene	50.0	55.0		ug/L		110	80 - 129	1	20
Dichlorobromomethane	50.0	52.0		ug/L		104	80 - 120	1	20
Ethylbenzene	50.0	49.8		ug/L		100	80 - 120	0	20
Methylene Chloride	50.0	53.4		ug/L		107	80 - 120	2	20
Styrene	50.0	49.9		ug/L		100	80 - 126	0	20
Tetrachloroethene	50.0	50.5		ug/L		101	71 - 123	0	20
Toluene	50.0	50.8		ug/L		102	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	52.3		ug/L		105	80 - 120	1	20
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	80 - 128	2	30
Trichloroethene	50.0	51.4		ug/L		103	80 - 120	1	20
Vinyl chloride	50.0	49.0		ug/L		98	80 - 129	1	20
Xylenes, Total	100	101		ug/L		101	80 - 120	0	20

LCSD LCSD

Surrogate	%Recovery	LCSD	
		Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	97		73 - 131
Dibromofluoromethane (Surr)	101		80 - 122
4-Bromofluorobenzene (Surr)	96		80 - 120

Lab Sample ID: MB 680-522665/9

Matrix: Water

Analysis Batch: 522665

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

Analyte	Result	Qualifier	MB		MDL	Unit	D	Prepared	Analyzed	Dil Fac
			RL	MB						
1,1,1-Trichloroethane	<1.0		1.0		ug/L				05/04/18 10:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L				05/04/18 10:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L				05/04/18 10:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L				05/04/18 10:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L				05/04/18 10:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L				05/04/18 10:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L				05/04/18 10:34	1
2-Butanone (MEK)	<10		10		ug/L				05/04/18 10:34	1
2-Hexanone	<10		10		ug/L				05/04/18 10:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L				05/04/18 10:34	1
Acetone	<10		10		ug/L				05/04/18 10:34	1
Benzene	<1.0		1.0		ug/L				05/04/18 10:34	1
Bromoform	<1.0		1.0		ug/L				05/04/18 10:34	1
Bromomethane	<5.0		5.0		ug/L				05/04/18 10:34	1
Carbon disulfide	<2.0		2.0		ug/L				05/04/18 10:34	1
Carbon tetrachloride	<1.0		1.0		ug/L				05/04/18 10:34	1
Chlorobenzene	<1.0		1.0		ug/L				05/04/18 10:34	1
Chlorodibromomethane	<1.0		1.0		ug/L				05/04/18 10:34	1
Chloroethane	<5.0		5.0		ug/L				05/04/18 10:34	1
Chloroform	<1.0		1.0		ug/L				05/04/18 10:34	1
Chloromethane	<1.0		1.0		ug/L				05/04/18 10:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L				05/04/18 10:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L				05/04/18 10:34	1
Dichlorobromomethane	<1.0		1.0		ug/L				05/04/18 10:34	1

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: MB 680-522665/9

Matrix: Water

Analysis Batch: 522665

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Ethylbenzene	<1.0				1.0		ug/L			05/04/18 10:34	1
Methylene Chloride	<5.0				5.0		ug/L			05/04/18 10:34	1
Styrene	<1.0				1.0		ug/L			05/04/18 10:34	1
Tetrachloroethene	<1.0				1.0		ug/L			05/04/18 10:34	1
Toluene	<1.0				1.0		ug/L			05/04/18 10:34	1
trans-1,2-Dichloroethene	<1.0				1.0		ug/L			05/04/18 10:34	1
trans-1,3-Dichloropropene	<1.0				1.0		ug/L			05/04/18 10:34	1
Trichloroethene	<1.0				1.0		ug/L			05/04/18 10:34	1
Vinyl chloride	<1.0				1.0		ug/L			05/04/18 10:34	1
Xylenes, Total	<1.0				1.0		ug/L			05/04/18 10:34	1

Surrogate	MB	MB	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
	Result	Qualifier						
Toluene-d8 (Surr)	96		80 - 120				05/04/18 10:34	1
1,2-Dichloroethane-d4 (Surr)	97		73 - 131				05/04/18 10:34	1
Dibromofluoromethane (Surr)	92		80 - 122				05/04/18 10:34	1
4-Bromofluorobenzene (Surr)	90		80 - 120				05/04/18 10:34	1

Lab Sample ID: LCS 680-522665/5

Matrix: Water

Analysis Batch: 522665

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

Analyte	Spike Added	LC S	LC S	Unit	D	%Rec	Limits	%Rec.
		Result	Qualifier					
1,1,1-Trichloroethane	50.0	49.4		ug/L		99	80 - 120	
1,1,2,2-Tetrachloroethane	50.0	53.3		ug/L		107	76 - 126	
1,1,2-Trichloroethane	50.0	48.6		ug/L		97	80 - 120	
1,1-Dichloroethane	50.0	51.1		ug/L		102	80 - 120	
1,1-Dichloroethene	50.0	47.4		ug/L		95	80 - 120	
1,2-Dichloroethane	50.0	50.4		ug/L		101	72 - 128	
1,2-Dichloropropane	50.0	53.3		ug/L		107	80 - 120	
2-Butanone (MEK)	250	318 *		ug/L		127	79 - 125	
2-Hexanone	250	294		ug/L		118	80 - 131	
4-Methyl-2-pentanone (MIBK)	250	263		ug/L		105	80 - 134	
Acetone	250	304		ug/L		121	68 - 132	
Benzene	50.0	48.0		ug/L		96	80 - 120	
Bromoform	50.0	54.8		ug/L		110	52 - 122	
Bromomethane	50.0	45.2		ug/L		90	43 - 146	
Carbon disulfide	50.0	46.7		ug/L		93	77 - 129	
Carbon tetrachloride	50.0	44.3		ug/L		89	67 - 125	
Chlorobenzene	50.0	50.6		ug/L		101	80 - 120	
Chlorodibromomethane	50.0	49.0		ug/L		98	68 - 120	
Chloroethane	50.0	53.4		ug/L		107	48 - 145	
Chloroform	50.0	49.1		ug/L		98	80 - 120	
Chloromethane	50.0	52.0		ug/L		104	76 - 149	
cis-1,2-Dichloroethene	50.0	53.6		ug/L		107	80 - 120	
cis-1,3-Dichloropropene	50.0	48.8		ug/L		98	80 - 129	
Dichlorobromomethane	50.0	45.0		ug/L		90	80 - 120	
Ethylbenzene	50.0	49.7		ug/L		99	80 - 120	
Methylene Chloride	50.0	51.7		ug/L		103	80 - 120	

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

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

Lab Sample ID: LCS 680-522665/5

Matrix: Water

Analysis Batch: 522665

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Styrene	50.0	48.8		ug/L		98	80 - 126
Tetrachloroethene	50.0	45.6		ug/L		91	71 - 123
Toluene	50.0	44.5		ug/L		89	80 - 120
trans-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	46.6		ug/L		93	80 - 128
Trichloroethene	50.0	49.4		ug/L		99	80 - 120
Vinyl chloride	50.0	49.2		ug/L		98	80 - 129
Xylenes, Total	100	96.6		ug/L		97	80 - 120

Surrogate	LCS	LCS	%Recovery				
			Qualifier	Limits			
Toluene-d8 (Surr)	87			80 - 120			
1,2-Dichloroethane-d4 (Surr)	96			73 - 131			
Dibromofluoromethane (Surr)	98			80 - 122			
4-Bromofluorobenzene (Surr)	90			80 - 120			

Lab Sample ID: LCSD 680-522665/6

Matrix: Water

Analysis Batch: 522665

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

Analyte	Spike	LCSD	LCSD	%Rec.				RPD	Limit
	Added	Result	Qualifier	Unit	D	%Rec	Limits		
1,1,1-Trichloroethane	50.0	42.2		ug/L		84	80 - 120	16	20
1,1,2,2-Tetrachloroethane	50.0	59.1		ug/L		118	76 - 126	10	20
1,1,2-Trichloroethane	50.0	51.7		ug/L		103	80 - 120	6	20
1,1-Dichloroethane	50.0	48.4		ug/L		97	80 - 120	5	20
1,1-Dichloroethene	50.0	48.3		ug/L		97	80 - 120	2	20
1,2-Dichloroethane	50.0	45.6		ug/L		91	72 - 128	10	50
1,2-Dichloropropane	50.0	50.1		ug/L		100	80 - 120	6	20
2-Butanone (MEK)	250	287		ug/L		115	79 - 125	10	20
2-Hexanone	250	252		ug/L		101	80 - 131	16	20
4-Methyl-2-pentanone (MIBK)	250	294		ug/L		118	80 - 134	11	20
Acetone	250	307		ug/L		123	68 - 132	1	30
Benzene	50.0	44.8		ug/L		90	80 - 120	7	20
Bromoform	50.0	50.2		ug/L		100	52 - 122	9	20
Bromomethane	50.0	47.4		ug/L		95	43 - 146	5	20
Carbon disulfide	50.0	46.5		ug/L		93	77 - 129	0	20
Carbon tetrachloride	50.0	42.7		ug/L		85	67 - 125	4	20
Chlorobenzene	50.0	45.7		ug/L		91	80 - 120	10	20
Chlorodibromomethane	50.0	42.5		ug/L		85	68 - 120	14	20
Chloroethane	50.0	41.9 *		ug/L		84	48 - 145	24	20
Chloroform	50.0	44.9		ug/L		90	80 - 120	9	20
Chloromethane	50.0	47.8		ug/L		96	76 - 149	8	30
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	80 - 120	10	20
cis-1,3-Dichloropropene	50.0	55.4		ug/L		111	80 - 129	13	20
Dichlorobromomethane	50.0	49.8		ug/L		100	80 - 120	10	20
Ethylbenzene	50.0	45.4		ug/L		91	80 - 120	9	20
Methylene Chloride	50.0	50.2		ug/L		100	80 - 120	3	20
Styrene	50.0	47.9		ug/L		96	80 - 126	2	20
Tetrachloroethene	50.0	49.8		ug/L		100	71 - 123	9	20

TestAmerica Savannah

QC Sample Results

Client: EHS Support, LLC

TestAmerica Job ID: 680-151360-1

Project/Site: Ashland Alterman (Jonesboro)

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

Lab Sample ID: LCSD 680-522665/6

Client Sample ID: Lab Control Sample Dup

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 522665

Analyte	Spike Added	LCSD		Unit	D	%Rec.		RPD	RPD Limit
		Result	Qualifier			%Rec.	Limits		
Toluene	50.0	48.8		ug/L		98	80 - 120	9	20
trans-1,2-Dichloroethene	50.0	46.8		ug/L		94	80 - 120	9	20
trans-1,3-Dichloropropene	50.0	53.7		ug/L		107	80 - 128	14	30
Trichloroethene	50.0	44.5		ug/L		89	80 - 120	11	20
Vinyl chloride	50.0	46.0		ug/L		92	80 - 129	7	20
Xylenes, Total	100	93.9		ug/L		94	80 - 120	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
Toluene-d8 (Surr)	92		80 - 120
1,2-Dichloroethane-d4 (Surr)	90		73 - 131
Dibromofluoromethane (Surr)	87		80 - 122
4-Bromofluorobenzene (Surr)	88		80 - 120

QC Association Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

GC/MS VOA

Analysis Batch: 521365

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151360-18	TRIP BLANK	Total/NA	Water	8260B	
MB 680-521365/7	Method Blank	Total/NA	Water	8260B	
LCS 680-521365/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-521365/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 522369

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151360-13	EB-1	Total/NA	Water	8260B	
MB 680-522369/9	Method Blank	Total/NA	Water	8260B	
LCS 680-522369/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-522369/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 522487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151360-1	MW-13A	Total/NA	Water	8260B	
680-151360-2	MW-13B	Total/NA	Water	8260B	
680-151360-3	MW-19D	Total/NA	Water	8260B	
680-151360-4	MW-19C	Total/NA	Water	8260B	
680-151360-5	MW-19B	Total/NA	Water	8260B	
680-151360-6	MW-16B	Total/NA	Water	8260B	
680-151360-7	MW-16C	Total/NA	Water	8260B	
680-151360-8	MW-16A	Total/NA	Water	8260B	
680-151360-9	MW-20C	Total/NA	Water	8260B	
680-151360-10	MW-15A	Total/NA	Water	8260B	
680-151360-11	MW-15B	Total/NA	Water	8260B	
680-151360-15	SS-1	Total/NA	Water	8260B	
680-151360-16	SS-2	Total/NA	Water	8260B	
680-151360-17	SS-3	Total/NA	Water	8260B	
MB 680-522487/9	Method Blank	Total/NA	Water	8260B	
LCS 680-522487/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-522487/6	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 522622

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151360-12	DUP-1	Total/NA	Water	8260B	
680-151360-13 - RA	EB-1	Total/NA	Water	8260B	
680-151360-14	OF-1	Total/NA	Water	8260B	
MB 680-522622/8	Method Blank	Total/NA	Water	8260B	
LCS 680-522622/4	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-522622/5	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 522665

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-151360-5 - DL	MW-19B	Total/NA	Water	8260B	
680-151360-10 - DL	MW-15A	Total/NA	Water	8260B	
MB 680-522665/9	Method Blank	Total/NA	Water	8260B	
LCS 680-522665/5	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-522665/6	Lab Control Sample Dup	Total/NA	Water	8260B	

TestAmerica Savannah

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-13A

Date Collected: 04/19/18 11:50

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 15:32	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-13B

Date Collected: 04/19/18 11:40

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 15:54	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-19D

Date Collected: 04/19/18 12:45

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	522487	05/03/18 11:55	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-19C

Date Collected: 04/19/18 12:35

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	522487	05/03/18 12:17	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-19B

Date Collected: 04/19/18 12:25

Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 16:15	AMM	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260B	DL	2	5 mL	5 mL	522665	05/04/18 16:07	AMM	TAL SAV
		Instrument ID: CMSO2								

TestAmerica Savannah

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-16B

Date Collected: 04/19/18 13:45
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	522487	05/03/18 12:38	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-16C

Date Collected: 04/19/18 13:55
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	522487	05/03/18 13:00	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-16A

Date Collected: 04/19/18 13:35
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	522487	05/03/18 13:22	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-20C

Date Collected: 04/19/18 14:55
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		2	5 mL	5 mL	522487	05/03/18 13:43	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: MW-15A

Date Collected: 04/19/18 14:30
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 16:37	AMM	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260B	DL	5	5 mL	5 mL	522665	05/04/18 16:30	AMM	TAL SAV
		Instrument ID: CMSO2								

TestAmerica Savannah

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: MW-15B

Date Collected: 04/19/18 14:35
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 16:59	AMM	TAL SAV

Client Sample ID: DUP-1

Date Collected: 04/19/18 15:20
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522622	05/03/18 22:12	Y1S	TAL SAV

Client Sample ID: EB-1

Date Collected: 04/19/18 16:00
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	RA	1	5 mL	5 mL	522622	05/03/18 21:50	Y1S	TAL SAV
		Instrument ID: CMSA2								
Total/NA	Analysis	8260B		1	5 mL	5 mL	522369	05/02/18 13:26	Y1S	TAL SAV
		Instrument ID: CMSAA								

Client Sample ID: OF-1

Date Collected: 04/19/18 15:15
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522622	05/03/18 22:33	Y1S	TAL SAV

Client Sample ID: SS-1

Date Collected: 04/19/18 15:20
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 10:50	AMM	TAL SAV

TestAmerica Savannah

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Client Sample ID: SS-2

Date Collected: 04/19/18 15:25
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 11:11	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: SS-3

Date Collected: 04/19/18 15:50
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	522487	05/03/18 11:33	AMM	TAL SAV

Instrument ID: CMSA2

Client Sample ID: TRIP BLANK

Date Collected: 04/12/18 00:00
Date Received: 04/20/18 06:50

Lab Sample ID: 680-151360-18

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	521365	04/25/18 12:10	Y1S	TAL SAV

Instrument ID: CMSA2

Laboratory References:

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

TestAmerica Savannah

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

CHAIN OF CUSTODY FORM

Project/PO Number <u>Project: Ashland Alterman</u> <u>(Jonesboro)</u>							Analysis Required							
Job Description: 042018														
Job #: 001849 2018-400-400														
Client Name/Address EHS Support LLC 228 4th Ave Decatur, GA 30030		Project Manager Kris Spikes, EHS Support Sampler: Kris Spikes Note:		Phone Number: (678) 522-6050 Fax Number:		Sample Matrix		Container Type	# of Cont	Date	Time	Preservation	Special Instructions	
MW-13A	W	40 ML VOA	3	04/19/18	1150	HCL								
MW-13B	W	40 ML VOA	3	04/19/18	1150	HCL								
MW-19D	W	40 ML VOA	3	04/19/18	1245	HCL								
MW-19C	W	40 ML VOA	3	04/19/18	1235	HCL								
MW-19B	W	40 ML VOA	3	04/19/18	1225	HCL								
MW-19B	W	40 ML VOA	3	04/19/18	1345	HCL								
MW-16C	W	40 ML VOA	3	04/19/18	1355	HCL								
MW-16A	W	40 ML VOA	3	04/19/18	1335	HCL								
MW-20C	W	40 ML VOA	3	04/19/18	1455	HCL								
MW-15A	W	40 ML VOA	3	04/19/18	1430	HCL								
MW-15B	W	40 ML VOA	3	04/19/18	1435	HCL								
DUP-1	W	40 ML VOA	3	04/19/18	1520	HCL								
EB-1	W	40 ML VOA	3	04/19/18	1600	HCL								
OF-1	W	40 ML VOA	3	04/19/18	1515	HCL								
SS-1	W	40 ML VOA	3	04/19/18	1520	HCL								
SS-2	W	40 ML VOA	3	04/19/18	1525	HCL								
SS-3	W	40 ML VOA	3	04/19/18	1550	HCL								
TRIP BLANK	W	40 ML VOA	2	04/12/18	...	HCL								
Reinquished By	<i>K. Spikes</i>		Date/Time	04/19/18	1630	Received by	<i>J. Jones</i>		Date/Time	04/19/18	1630	Turnaround Time	(Check)	
Reinquished By	<i>J. Jones</i>		Date/Time	04/19/18	1630	Received by	<i>J. Jones</i>		Date/Time	04/19/18	24 Hours	72 Hours		
Reinquished By	<i>J. Jones</i>		Date/Time	04/19/18	1630	Received by Lab	<i>J. Jones</i>		Date/Time	04/19/18	48 Hours	5 Days		
												Normal:	ALL	
												Sample Integrity	(Check)	
												Intact	On Ice	

21°C (4°F) 2.0°C



680-151360 Chain of Custody

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 680-151360-1

Login Number: 151360

List Source: TestAmerica Savannah

List Number: 1

Creator: Tyler, Matthew M

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
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.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 680-151360-1

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

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TestAmerica Savannah



ATTACHMENT B

Soil Vapor Investigation Report

Tara Retail Shopping
Center
8564 Tara Blvd.,
Jonesboro, Clayton
County, Georgia
HIS 10798

Prepared for:



Prepared by:
EHS  **Support**

June 2018



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Acronyms

m ²	meters squared
µg/m ³	micrograms per cubic meter
bgs	below ground surface
CAP	Corrective Action Plan
COC	chain of custody
COPCs	constituents of potential concern
DCA	1,2-dichloroethane
DCE	cis-1,2-dichloroethene
DPT	direct-push technology
GA EPD	Georgia Environmental Protection Division
GWC-UAC	Groundwater Concentration to Indoor Air Concentration
HVAC	heating, ventilation, and air conditioning
ITRC	Interstate Technology & Regulatory Council
J&E	Johnson and Ettinger
LCSDs	linear control sample duplicates
PCE	tetrachloroethene
QC	quality control
Report	Soil Vapor Investigation Report
RPD	relative percent difference
RSL	Regional Screening Levels
SGSL	soil gas/sub-slab screening level
Site	8564 Tara Boulevard, Jonesboro, Clayton County, Georgia
SOP	standard operating procedure
TCE	trichloroethene
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VI	vapor intrusion
VISL	Vapor Intrusion Screening Level
VOCs	volatile organic compounds
VRP	Voluntary Remediation Program



Statement of Limitations

This report is intended for the sole use of Ashland LLC (“Ashland”). The scope of services performed during this investigation may not be appropriate to satisfy the needs of other users, and any use or re-use of this document or of the findings, conclusions, or recommendations presented herein is at the sole risk of said user.

Background information, design bases, and other data have been furnished to EHS Support LLC (“EHS Support”) by Ashland and/or third parties, which EHS Support has used in preparing this report. EHS Support has relied on this information as furnished and is neither responsible for nor has confirmed the accuracy of this information.

Opinions presented herein apply to the existing and reasonably foreseeable Site conditions at the time of our assessment. They cannot apply to Site changes of which EHS Support is unaware and has not had the opportunity to review. Changes in the condition of this property may occur with time due to natural processes or works of man at the Site or on adjacent properties. Changes in applicable standards may also occur as a result of legislation or the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.



1 Introduction

The purpose of this Soil Vapor Investigation Report (Report) is to summarize the vapor intrusion (VI) investigation activities conducted from October 2017 to March 2018 at the Tara Retail Shopping Center (Parcel 13242D B001), Flint River Shopping Center (Parcel 13242D A001), and Bail Bond Property (Parcel 13242D A012) located in Jonesboro, Clayton County, Georgia (**Figure 1**). Soil vapor investigation activities were performed pursuant to the corrective action requirements outlined in the Georgia Environmental Protection Division (GA EPD's) *Voluntary Investigation and Remediation Plan and Application* (VRP) approval letter dated June 28, 2012 for the Ashland Tara Retail Shopping Center (Site), HSI Site No. 10798.

This Report summarizes the VI investigation activities conducted at the three properties referenced above and provides an in-depth evaluation and screening of the soil gas and indoor air data in accordance with current GA EPD and United States Environmental Protection Agency (USEPA) guidance.

1.1 Background

VI investigation activities were completed in accordance with the GA EPD approved *Groundwater Correction Action Plan* (Groundwater CAP) dated March 17, 2016 (EHS Support, 2016). In order to determine the properties requiring VI investigation, a preliminary screening evaluation was conducted using historical groundwater data to assess the potential for complete exposure pathways through VI for each impacted property using the USEPA Vapor Intrusion Screening Level (VISL) Calculator incorporating USEPA regional screening levels (RSLs) (EHS Support, 2016). The preliminary screening was conducted in accordance with the 2015 USEPA VI Guidance (USEPA, 2015), and included the following constituents of potential concern (COPCs):

- Site-related parent compound tetrachloroethene (PCE)
- Biodegradation products trichloroethene (TCE), cis-1,2-dichlorothene (cis-1,2-DCE), trans-1,2-dichloroethene (trans 1,2-DCE), 1,1-dichloroethene (1,1-DCE), and vinyl chloride (VC)
- Non-Site-related COPCs (e.g., chloroform, petroleum constituents, 1,2-dichloroethane [1,2-DCA], etc.).

The preliminary screening was conducted using Version 3.4.5 of the Groundwater Concentration to Indoor Air Concentration (GWC-IAC) Calculator included in the USEPA VISL Calculator (USEPA, 2015). Estimated carcinogenic risks and non-carcinogenic hazard quotients were evaluated against target levels of 10^{-5} and 1.0 in accordance with the GA EPD Vapor Intrusion Technical Guidance which defaults to the USEPA *Technical Guide for Assessing and Mitigating the Vapor Intrusion Pathway from Subsurface Vapor Sources to Indoor Air* (USEPA, 2015). For Site-related COPCs, these target levels were exceeded at the following four parcels, which as a result were recommended for further VI investigation/pathway evaluation:

Parcel ID	Property
13242D B001	Tara Retail Shopping Center (subject Site) 8564 Tara Boulevard
13242D A001	Flint River Shopping Center 8639 Tara Boulevard



Parcel ID	Property
13242D A012	Outbuilding (Bail Bonds) 8633 Tara Boulevard
13242D B006Z/6	Praxair 8660 Tara Boulevard

Note: Parcel locations are shown on **Figure 2**.

From October 2017 to March 2018, VI investigation activities were conducted at three (3) of the four (4) parcels identified above (13242D B001, 13242D A001, and 13242D A012). VI investigation was not conducted at the fourth property, Parcel 13242D B006Z/6, due to property access; however, a property access agreement was executed on June 4, 2018 and VI investigation activities are tentatively scheduled to occur at the fourth property in July 2018. Results of this investigation will be provided in the December 2018 VRP Progress Report #13.

A summary of the October 2017 to March 2018 VI investigation activities and data evaluation are provided herein.



2 Vapor Intrusion Investigation Activities

VI investigation activities were conducted from October 2017 to March 2018 at the Tara Retail Shopping Center (Parcel 13242D B001), Flint River Shopping Center (Parcel 13242D A001), and Bail Bond Property (Parcel 13242D A012) property located in Jonesboro, Clayton County, Georgia. The purpose of the VI investigation was to determine whether volatile site-related COPCs, known to be detected in groundwater, were present in the exterior soil gas, sub-slab soil gas, and/or indoor air at these select properties. A summary of investigation activities completed are summarized below:

- Obtained property access agreements for three (3) of the four (4) select properties.
- Developed an understanding of property-specific characteristics with the potential to have an effect on VI (i.e., building construction, age, type, occupants, heating/cooling systems, etc.).
- Collected exterior soil gas samples from three (3) properties that represent the highest likelihood of a completed VI pathway.
- Collected additional sub-slab soil gas and indoor air data from buildings where screening of exterior soil gas result warranted further evaluations for VI risk.
- Evaluated exterior soil gas, sub-slab soil gas, and indoor air data using the USEPA VISL Calculator (USEPA, 2018) and/or Johnson and Ettinger (J&E) modeling for Site-specific evaluations (USEPA, 2017).

2.1 Site Reconnaissance

A site reconnaissance was completed for each parcel selected for VI investigation activities. The Site reconnaissance included completion of a building inspection form that gathered site-specific information, such as the presence of basements or crawlspaces and integrity conditions, which would create preferential pathway for soil vapor to indoor air. For buildings selected for sub-slab soil gas and indoor air sampling the building inspection included screening of potential migration routes (e.g., basements, crawlspaces, sumps, etc.). Data collected during Site reconnaissance was used to determine the most suitable locations for sub-slab soil gas and indoor air samples. Building inspection forms completed during these assessments are included as **Appendix A**.

2.2 Soil Gas Implant Probe Installation

On October 25-26, 2017, a total of twelve (12) soil gas implant probes were installed at Parcel 13242D B001 (six [6] probes), Parcel 13242D A001 (three [3] probes), and Parcel 13242D A012 (three [3] probes). Soil gas implant locations were selected due to their proximity to buildings potentially susceptible to VI. The location of the soil gas implants is shown on **Figure 3** and **Figure 4**.

Soil gas implant probes were installed in close proximity (within 5 feet) of target building foundations. Soil gas implant probes were installed via direct-push technology (DPT) by GeoLab Drilling, Inc. of Winder, GA. The probes were installed as both single and nested completions, with one (1) deep (nested) implant probe installed at each of the three properties. Deep implant probes were installed adjacent to the former source area (Parcel 13242D B001) and in the direction of downgradient groundwater migration (Parcel 13242D A001 and Parcel 13242D A012) to confirm whether Site-related COPCs were at greater concentrations nearer to the groundwater table versus within the upper vadose zone.



The shallow soil gas implant probes were installed at an interval of 2.5 to 3.0 feet below ground surface (bgs) within the unsaturated, upper vadose zone. The deep soil gas implant probes were installed at an interval just above the top of the groundwater table. Soil gas implants were constructed in accordance with the Section D.4.2 of Interstate Technology & Regulatory Council Technical and Regulatory Guidance Supplement – Vapor Intrusion Pathway (ITRC [2007])). Construction details for each soil gas implant probe are provided on **Table 1** and boring logs are included as **Appendix B**.

2.3 Soil Gas Sampling

As part of soil gas sampling activities, leak testing was performed prior to sampling using helium gas. No leaks were detected as part of the testing. Soil gas implant probes were sampled at the three select properties on December 12, 2017. Soil gas samples were collected using, clean, individually-certified six (6)-liter stainless-steel SUMMA™ canisters. The SUMMA™ canisters were equipped with a thirty (30)-minute flow regulator for soil gas sample collection. Samples were submitted to TestAmerica under proper chain of custody (COC) for analysis of volatile organic compounds (VOCs) via USEPA method TO-15. Field sampling forms are provided in **Appendix C** and laboratory analytical reports are included in **Appendix D**.

Based on the results of the December 2017 soil gas samples, confirmation samples were collected to verify soil gas VOC concentrations at soil gas implant probes SG-FRSC-02S, SG-FRSC-02D and SG-TSC-02S on January 31, 2018. Results off the soil gas sample analytical results is provided in **Section 3**.

2.4 Sub-Slab Probe Installation

The exterior soil gas data was assessed using the USEPA VISL calculator in addition to a site-specific J&E model as detailed in **Section 3.0**. Based on this assessment and due to elevated concentrations at soil gas sample location SG-TSC-02S, sub-slab soil gas samples were collected in three suites in the southernmost portion of the Parcel 13242D B001 (near the former dry cleaner). As shown in **Figure 3**, SG-TSC-02S was an exterior soil gas samples installed approximately ten feet west of the former dry cleaner site and directly outside the footprint of the soil remediation area (monolith). The three suites in Parcel 13242D B001 where sub-slab vapor sampling was conducted included the Metro PCS, Paulina's Hair Salon (Salon), and Casi's Boot Camp (Boot Camp). The locations of these suites and SG-TSC-02S are provided on **Figure 5**.

Based on Site reconnaissance and inspection of the three (3) suites, five (5) Vapor Pin® sub-slab probes were installed on March 12, 2018 in accordance with the Vapor Pin® standard operating procedure (SOP) (Vapor Pin, 2016). With the exception of Metro PCS, two vapor probes were installed in each suite; however due to newly installed wood flooring at Metro PCS, only one probe was installed in this suite as the tenant would not permit penetration of the new flooring. It should be noted that the Metro PCS and the Salon are separated by interior walls, but likely share a common slab based on Site reconnaissance.

2.5 Sub-Slab Vapor Sampling

On March 12, 2018, sub-slab soil gas samples were collected following a minimum of two (2) hours after probe installation, to allow the sub-slab soil gas to re-equilibrate with subsurface conditions. Sub-slab soil gas samples were collected using clean, batch-certified six (6)-liter stainless-steel SUMMA™



canisters. Prior to sampling, the SUMMA™ canisters were inspected and verified to have sufficient vacuum to perform the vapor sampling. The SUMMA™ canisters were equipped with thirty (30)-minute flow regulators for sub-slab soil gas sample collection.

Samples were submitted to Test America under proper COC for analysis of VOCs via USEPA method TO-15. Following sub-slab soil gas sample collection, the Vapor Pin® probes were removed and the holes sealed with self-leveelling cement. Field sampling forms are provided in **Appendix C** and the laboratory analytical reports are included as **Appendix D**.

2.6 Indoor and Outdoor Air Sampling

Indoor air samples were collected on March 20, 2018 in the Boot Camp, Salon, and Metro PCS. Outdoor air samples were collected on March 20, 2018 in upwind and downwind locations to assess the ambient air quality. Indoor and outdoor air samples were collected using clean, individually-certified six (6)-liter stainless-steel SUMMA™ canisters. The SUMMA™ canisters were equipped with an eight (8)-hour flow regulator to assess the potential daily exposure from a commercial/industrial worker exposure scenario.

The SUMMA™ canisters for indoor air sampling were placed in the breathing zone for sample collection, approximately three (3) to five (5) feet above ground surface. The heating, ventilation, and air conditioning (HVAC) systems were operated normally for the season and time of day. During indoor air sampling, the building windows remained closed and ingress/egress was minimized. Outdoor air samples were collected by placing the SUMMA™ canisters directly on the ground surface.

Samples were shipped to, under proper COC, and placed on hold with TestAmerica Laboratories pending review of the sub-slab soil gas analytical data. Based on the subsequent review of the sub-slab data, it was determined that indoor air samples would be analyzed for VOCs via USEPA method TO-15 at the Salon and Metro PCS, but analysis was not required for the Boot Camp suite. Additional details of the sub-slab soil gas results and interpretation is provided in **Section 3.0**. The laboratory analytical reports are included as **Appendix D**.



3 Data Usability

The laboratory analytical reports (**Appendix D**) were evaluated to ensure their usability for the intended purpose. This included:

- Review of the laboratory certification to ensure that the laboratory is certified to perform the requested analysis.
- Review of the laboratory report to ensure that the samples were received and analyzed within appropriate holding times.
- Review of the canister cleaning certifications included with the report to ensure acceptable cleaning practices.
- Review of the initial and final canister vacuums to evaluate potential canister leakage during shipment from the laboratory, during sampling, or during shipment to the laboratory.
- Review of field duplicate results and relative percent difference (RPD) to confirm the results were within acceptable percentages/acceptance limits.
- Evaluation of outdoor air sample results to identify potential background COPCs present within indoor air samples.
- Evaluation of laboratory quality control (QC) results including method blanks, initial and continuing calibrations, internal standards, linear control sample duplicates (LCSDs), and surrogate recoveries. Data evaluation to confirm that method blank results were non-detect, calibrations and internal standards were within acceptance criteria, and that surrogate recoveries, and percent recovery and RPDs for LCSDs were within control limits.

The following items were noted as part of this review:

- The COC noted that water may have been pulled into one canister (sub-slab sample TS-SS-D, collected in the Salon suite). Due to the water the sample was stopped prior to completely filling the canister. The laboratory noted that the canister had an elevated residual vacuum and the flow controller was out of calibration. The laboratory was able to run this sample without qualifiers, but the sample may be biased low due to moisture within the canister.
- One outdoor air canister (TS-OAS-U [upwind]) was received at ambient pressure. This may indicate that leakage occurred during transport of the canister and the results may not be representative of the outdoor conditions at the Site.
- Outdoor air sample TS-OAS-D (downwind) reported concentrations of non-Site-related COPCs acetone, benzene, 2-butanone, ethylbenzene, methylene chloride, toluene, and xylenes.

With the exception of the items noted above the data was determined usable for its intended purpose. The water in sub-slab sample TS-SS-D was considered when evaluating the results; most notably, that the indoor air sample collected in the Salon suite (used to evaluate risk), was collected near the TS-SS-D sample location. Additionally, non-Site-related COPCs were not reported at concentrations above the applicable screening level; therefore, outdoor air sample TS-OA-U results were not required to evaluate background sources.



4 Data Evaluation and Screening Level Calculations

This section summarizes the screening and modeling of the December 2017 to March 2018 soil gas and indoor air data for the purpose of adequately evaluating the potential for VI at the three properties selected for assessment. Exterior soil gas and sub-slab soil gas data was evaluated using the USEPA VISL Calculator Target Sub-Slab and Near-Source Soil Gas Concentrations whereas indoor air data was evaluated using Target Indoor Air Concentrations derived from the VISL calculator for the commercial industrial exposure scenarios (US EPA, 2018).

The VISL Calculator provided a conservative estimate for Target Concentrations, based on a cumulative carcinogenic risk of 10^{-5} and the non-carcinogenic hazard quotient of 1.0. The VISL calculator takes the lowest Worker Ambient Air RSLs (between cancer and non-cancer [USEPA, 2018]) and applies USEPA's generic attention factor of 0.03 to derive the target screening levels.

The data evaluation was conducted in a step-wise fashion using multiple lines of evidence as follows:

- Exterior soil gas data was initially screened against the Target Sub-Slab and Near-Source Soil Gas Concentrations derived from the VISL calculator (shown on **Table 2**);
- Exterior soil gas samples characterized by concentrations greater than the Target Sub-Slab and Near-Source Soil Gas Concentrations were re-sampled to confirm VOC concentrations. Confirmation sample data was then evaluated using the J&E Model (USEPA, 2017) using Site-specific data inputs. Through use of the exterior soil gas data, buildings were evaluated by calculating a theoretical indoor air concentration and comparing the levels against a cumulative total lifetime cancer risk from indoor air greater than 10^{-5} and a hazard index greater than 1.0.
- Buildings that were characterized by a theoretical unacceptable indoor air concentration were further evaluated through sub-slab soil gas and/or indoor air sampling.
- Sub-slab and indoor air samples were collected and analyzed, and individual COPC results were compared to Target Indoor Air Concentrations derived from the VISL calculator for the 10^{-5} cancer risk or a hazard index of 1.0.
- The cumulative risk of the indoor air concentrations was also evaluated using the sum of ratio approach.

4.1 Exterior Soil Gas Evaluations

4.1.1 VISL Screening

The December 2017 exterior soil gas results indicate fifteen (15) constituents, including PCE and TCE, which were detected above their respective laboratory method detection limits. Results of the exterior soil gas data is provided in **Table 2**. Exterior soil gas data was compared to the Target Sub-Slab and Near-Source Soil Gas Concentrations and results indicated that two (2) locations exceeded, as summarized below:

- SG-TSC-02S was positioned at the southern end of the Parcel 13242D B001, near the former dry cleaner (**Figure 3**). This shallow probe exceeded the Target Sub-Slab and Near-Source Soil Gas Concentration for PCE at a concentration of 1,700,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and TCE at a concentration of 110,000 $\mu\text{g}/\text{m}^3$ respectively. Confirmation samples were collected in January 2018, and PCE and TCE concentrations were reported at the same order of magnitude as the December 2018 results.



- SG-FRSC-02 was positioned northeast of the Parcel 13242D A001 in front of a 1-story retail building that is currently used as a grocery store (**Figure 4**). This shallow probe exceeded the Target Sub-Slab and Near-Source Soil Gas Concentrations for PCE and TCE during both sampling events with a maximum concentration of 20,000 µg/m³ and 540 µg/m³ respectively. The deep probe only exceeded the Target Sub-Slab and Near-Source Soil Gas Concentrations during the confirmation event, with a PCE concentration of 20,000 µg/m³ and a TCE concentration of 680 µg/m³.

No other soil gas VOC concentrations, including those at the Bail Bonds property, exceeded Target Sub-Slab and Near-Source Soil Gas Concentrations.

4.1.2 Johnson and Ettinger Modeling

Exterior soil gas data for the Parcel 13242D B001 and the Parcel 13242D A001 were also evaluated via the J&E model due to the Target Sub-Slab and Near-Source Soil Gas Concentration exceedances. In accordance with GA EPD Vapor Intrusion Technical Guidance webpage (<https://epd.georgia.gov/vapor-intrusion-technical-guidance>), J&E model results are acceptable as a secondary line of evidence for data evaluation and may also be used to confirm VISL calculation.

The September 2017 version of the J&E model (Version 6.0) was run for each property (USEPA, 2017). To be conservative, the default inputs were used within the J&E Model for commercial properties with the following exceptions:

- The building floor space area for both structures was reduced from 1,500 meters squared (m²) to 140 m². This more enclosed space is more conservative and more representative of the nearby structures.
- Historical geotechnical data from the Site was used to define the shallow soil conditions that most closely resembled the sandy-clay values provided in the default model.
- Additionally, a sensitivity analysis was conducted using USEPAs default geotechnical parameters for sand, which are intended to be the most conservative.

Copies of the J&E model inputs and outputs are provided in **Appendix E**, and results are summarized in the table below. The carcinogenic risks and non-carcinogenic hazard quotients for each chemical were added together to show the cumulative risk for the VI pathway at each property.

Summary of J&E Modeling Results

Property	Sample Location	Geotechnical Parameters	Cancer Risk Quotient	Non-Cancer Hazard Index (rounded)
Parcel 13242D B001	TSC-02	Site-Specific	2.11×10^{-5}	3.0
Parcel 13242D B001	TSC-02	Sand	1.18×10^{-4}	14
Parcel 13242D A001	FRSC-02S	Site-Specific	1.27×10^{-7}	0.02
Parcel 13242D A001	FRSC-02S	Sand	7.11×10^{-7}	0.1

Based on the J&E modeling results for the Parcel 13242D A001, the target levels for cancer risk (10^{-5}) and non-cancer hazard quotient (1.0) were not exceeded. Under current conditions, the Parcel 13242D A001 will not be impacted greater than the target levels, even under the most conservative sand conditions.



Based on the J&E evaluation at Parcel 13242D B001, it was determined that further VI investigation was required to confirm if an unacceptable risk to the commercial businesses was present. Sub-slab soil gas and indoor air samples were subsequently collected at select suites within the Parcel 13242D B001 and the results are summarized in the sections below.

4.2 Sub-Slab Data Screening

On March 12, 2018, sub-slab soil gas samples were collected in the three southernmost suites of the Parcel 13242D B001. Six (6) constituents including PCE and TCE were detected above their respective laboratory method detection limits. The laboratory analytical data for the sub-slab gas samples was compared to USEPA VISL Target Sub-Slab and Near-Source Soil Gas Concentrations, and one sub-slab soil gas sample location (TS-SS-C and TS-SS-CD [duplicate sample] located in the western portion of the Salon) exceeded for PCE and TCE with maximum concentrations of 49,000 µg/m³ and 770 µg/m³, respectively. Sub-slab soil gas sample locations are shown on **Figure 5** and results are summarized on **Table 3**.

Based on the Target Sub-Slab and Near-Source Soil Gas Concentration exceedance at TS-SS-C, indoor air samples were subsequently collected at both the Salon and Metro PCS since these suites are only separated by interior walls but likely share a common slab. Results of the indoor air sampling is summarized below.

4.3 Indoor Air Data Screening

Indoor air samples were collected on March 20, 2018 in the Metro PCS suite and adjacent Salon suite. Results indicated seven (7) constituents detected above the laboratory method detection limit. Site-related COPCs, PCE and TCE were detected in the Salon suite with concentration of 100 µg/m³ and 4.9 µg/m³, respectively. PCE and TCE were not detected in Metro PCS suite.

It should be noted that the Metro PCS business has regular hours and operates seven (7) days a week (generally 10 am to 7 pm). The Salon is operated intermittently, based on pre-scheduled appointments, and the space is neither occupied during regular hours nor is the HVAC system operated consistently. Prior to indoor air sampling, the salon was closed and not occupied, with the HVAC system not running for at least twenty-four (24) hours.

Indoor air sample results were compared to the May 2018 Target Indoor Air Concentrations generated by the VISL Calculator (USEPA, 2018) under the commercial/industrial exposure scenarios. All detections were below the respective screening levels for indoor air. Laboratory analytical results and screening levels for indoor air are provided on **Table 4**, and indoor air sample locations are shown on **Figure 5**.

4.4 Empirical Attenuation Factor Evaluation

The indoor air and sub-slab soil gas sample results were compared to calculate empirical attenuation factors across the building slab. Only one indoor air sample (TS-IAS-B) reported concentrations of Site-related COPCs in indoor air. In comparison with the closest sub-slab sample TS-SS-C, empirical attenuation factors were calculated as shown below:



Site-Specific Empirical Attenuation Factors

Location	Chemical	Indoor Air	Sub-slab soil gas	Attenuation factor
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	unitless
TS-IAS-B (Salon)	PCE	100	45000	0.002
	TCE	4.9	670	0.007

The empirical attenuation factors for TCE and PCE at the Salon are similar orders of magnitude indicating that both indoor air concentrations are likely due to VI and not background sources. Furthermore, the attenuation factors are an order of magnitude below the USEPA's default attenuation factors of 0.03 used in the VISL calculator. This indicates that using the VISL calculator with the default attenuation factors is conservative for commercial structures and should be evaluated if used further at the Site. The attenuation factor between sub-slab soil gas and indoor air calculated in the J&E model (**Appendix E**) was 0.003, which was the same order of magnitude and within range of the calculated empirical attenuation factors. This indicates that the J&E Model is appropriately calibrated to evaluate VI at the Site.

4.5 Cumulative Risk Screening

To evaluate the potential cumulative risk from VOCs reported in indoor air, the cumulative risk was assessed using the sum of ratio approach as outlined in the USEPA 2018 Guidance (USEPA, 2018). The cumulative risk screening results are summarized in the table below and provided on **Table 5**.

Summary of Cumulative Risk Screening

Property	Sample Location	Cancer Risk Quotient	Non-Cancer Hazard Index
Parcel 13242D B001 - Salon	TS-IAS-B	8.62×10^{-6}	1.0 ⁽¹⁾
Parcel 13242D B001 – Metro PCS	TS-IAS-C	0.00 ⁽²⁾	0.003
Parcel 13242D B001 – Metro PCS	TS-IAS-D	0.00 ⁽²⁾	0.003

Note:

- (1) When used in the assessment of non-cancer risks, the hazard quotient is commonly reported to one significant figure (USEPA, 1989). As shown here, the hazard index of 1.14 has been rounded to 1.0.
- (2) Constituents were not detected above the laboratory limits and/or does not have screening criteria.

Based on the cumulative risk screening results, the indoor air samples collected at Metro PCS and the Salon suites are less than the 10^{-5} cancer risk quotient and do not exceed the non-cancer hazard index of 1.0; therefore, no additional action is required.



5 Discussion and Closing

The VI Pathway was assessed at the Parcel 13242D B001 (Tara Retail Shopping Center (near the former dry cleaner); and at Parcel 13242D A001 (Flint River Shopping Center) and Parcel 13242D A012 (Bail Bonds property) located in the downgradient direction of the groundwater plume. Shallow and deep exterior soil gas samples were collected across at each of these properties in addition to sub-slab and indoor air samples collected at Parcels 13242D A001 and 13242D B001. Data evaluation and screening was completed using the USEPA VISL Calculator and J&E modeling tools, as summarized in previous sections of this report and below.

VI Assessment Summary – Parcel 13242D A012 (Bail Bonds)

- Exterior soil gas concentrations at Parcel 13242D A012 did not exceed the Target Sub-Slab and Near-Source Soil Gas Concentrations. No risks were identified at this property and no additional VI evaluation is warranted.

VI Assessment Summary – Parcel 13242D A001 (Flint River Shopping Center)

- Exterior soil gas concentrations at Parcel 13242D A001 exceeded the Target Sub-Slab and Near-Source Soil Gas Concentrations for PCE and TCE. Based on these results J&E modeling was performed as a secondary line of evidence for data evaluation using site-specific parameters.
- J&E modeling results for Parcel 13242D A001 indicate that the target levels for cancer risk (10^{-5}) and non-cancer hazard quotient (1.0) were not exceeded and under current conditions, this Parcel will not be impacted greater than the target levels, even under the most conservative sand conditions.
- Based on these evaluations, no additional VI evaluation is warranted at Parcel 13242D A001.

VI Assessment Summary – Parcel 13242D B001 (Tara Retail Shopping Center)

- Exterior soil gas samples collected at Parcel 13242D B001 identified concentrations of PCE above the Target Sub-Slab and Near-Source Soil Gas Concentration. Based on these results and additional J&E modeling evaluations, sub-slab soil samples were collected in the three southern-most suites of Parcel 13242D B001 including Metro PCS, the Salon, and the Boot Camp.
- Sub-slab soil gas sample screening levels were not exceeded at the Boot Camp and Metro PCS; however, sub-slab samples collected at the Salon exceeded the Target Sub-Slab and Near-Source Soil Gas Concentrations for PCE and TCE. Based on these results, VI potential for PCE and TCE was determined to be limited to the Metro PCS and Salon suites (since these suites are only separated by interior walls but likely share a common slab). Based on these results, indoor air samples were collected at the Metro PCS and Salon suites.
- Indoor air concentrations at the Metro PCS and Salon suites were below the Target Indoor Air Concentrations; did not exceed applicable risk thresholds (neither individually nor cumulatively); and the empirical attenuation factors calculated were within range of the J&E modeled attenuation factors.
- These results indicate that VOC detections in sub-slab soil vapor and indoor air do not present an unacceptable VI risk to occupants of Parcel 13242D B001 and no further VI assessment is warranted.



- As noted in the executed Uniform Environmental Covenant between GA EPD and Tara Retail Holdings LLC, (King and Spaulding, 2015), Parcel 13242D B001 can only be used for non-residential purposes, and any new building construction or modifications to existing building structures must include mechanisms that eliminate the potential for VI. Therefore, should conditions change that may result in an unacceptable risk to building occupants, as monitored under the Uniform Environmental Covenant, additional VI evaluation and/or preemptive mitigation may be warranted.

Evaluations of the exterior soil gas, sub-slab soil gas, and indoor air data indicate that the potential risk of VI to buildings overlying or near to the former source area and downgradient groundwater plume is below acceptable risk criteria at all three Parcels evaluated. The magnitude of soil gas impacts resulting from the original source area and downgradient groundwater plume have been quantified, and as such, no further evaluation of the VI to indoor air pathway on these properties is warranted.

VI investigation was not conducted at the fourth property, Parcel 13242D B006Z/6, due to property access issues; however, a property access agreement was executed on June 4, 2018. VI investigation activities are tentatively scheduled to occur at the fourth property in July 2018. Results of this investigation will be provided in the December 2018 VRP Progress Report #13.



6 References

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Tables

Table 1
Soil Gas Probe Construction Summary

Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

HSI 10798

Sample Identification	Screened Interval (ft-below grade)	Location	Parcel Identification	Analysis	Sample Collection Date
SG-TSC-01S	2.25-2.75	Tara Shopping Center	13242D B001	TO-15 (30-minute 6 liter SUMMA)	12/6/2017
SG-TSC-02S	3.25-3.75				12/5/2017
SG-TSC-03S	2.75-3.25				12/6/2017
SG-TSC-04S	2.25-2.75				12/5/2017
SG-TSC-05S	2.5-3.0				12/6/2017
SG-TSC-05S-DUP*					12/7/2017
SG-TSC-05D	18.5-19.0	Bail Bonds Property	13242D A012		12/6/2017
SG-AMB-01S	2.25-2.75				12/6/2017
SG-AMB-02S	2.25-2.75				12/6/2017
SG-AMB-02D	11.75-12.25				12/6/2017
SG-FRSC-01S	4.5-5.0	Flint River Shopping Center	13242D A001		12/6/2017
SG-FRSC-02S	2.5-3.0				12/6/2017
SG-FRSC-02D	9.5-10.0				12/7/2017

*Duplicate Sample Collected

"S" designates screen placed within upper residuum near building slab.

"D" designates screen placed within 3 feet above water table interface.

Table 2**Soil Gas Analytical Data**

Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA

Sample ID	Soil Gas Screening Levels ⁽²⁾ ($\mu\text{g}/\text{m}^3$)	Bail Bonds Property			Flint River Shopping Center					Tara Shopping Center							
		SG-AMB-01S	SG-AMB-02S	SG-AMB-02D	SG-FRSC-01S	SG-FRSC-02S	SG-FRSC-02S-C	SG-FRSC-02D	SG-FRSC-02D-C	SG-TSC-01S	SG-TSC-02S	SG-TSC-02S-C	SG-TSC-03S	SG-TSC-04S	SG-TSC-05S	SG-TSC-05S-DUP	SG-TSC-05D
		12/6/2017	12/6/2017	12/6/2017	12/6/2017	12/6/2017	1/31/2018 ⁽¹⁾	12/7/2017	1/31/2018	12/6/2017	12/5/2017	1/31/2018 ⁽¹⁾	12/6/2017	12/5/2017	12/6/2017	12/6/2017	12/7/2017
Volatile Organic Compounds⁽³⁾																	
Acetone	4510000	12 U	12 U	28	370 U	1200 U	1700 U	180 U	2500 U	12 U	240000 U	140000 U	12 U	34	25	12 U	12 U
Benzene	524	1.3	1.4	0.84	20 U	66 U	89 U	9.7 U	130 U	2.5	13000 U	7800 U	0.64 U	0.64 U	0.64 U	0.79	0.87
2-Butanone (MEK)	730000	1.5 U	1.5 U	11	46 U	150 U	210 U	22 U	310 U	1.5 U	29000 U	18000 U	4.8	8	4.1	1.5	1.5 U
Carbon disulfide	102000	2.2	1.6 U	1.6 U	49 U	160 U	220 U	24 U	320 U	1.6 U	31000 U	19000 U	1.6 U	27	1.6 U	1.6 U	1.6 U
Chloroform	178	0.98 U	0.98 U	0.98 U	31 U	100 U	140 U	15 U	200 U	0.98 U	19000 U	12000 U	0.98 U	1.1	0.98 U	0.98 U	0.98 U
Chloromethane	13100	1	1	1.1	32 U	110 U	140 U	16 U	210 U	1 U	21000 U	13000 U	1.1	1.1	1.1	1.2	1.1
cis-1,2-Dichloroethene	NP	0.79 U	0.79 U	0.79 U	25 U	82 U	110 U	12	160 U	0.79 U	16000 U	9700 U	0.79 U	3.5	0.79 U	0.79 U	0.79 U
Ethylbenzene	1640	0.87 U	0.87 U	1.8	27 U	90 U	120 U	13 U	180 U	1.1	17000 U	11000 U	0.87 U	28	0.87 U	0.87 U	0.87 U
Methylene Chloride	87600	1.7 U	1.7 U	1.8	55 U	180 U	240 U	26 U	360 U	1.7 U	35000 U	21000 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Styrene	146000	0.85 U	0.85 U	1.1	27 U	89 U	120 U	13 U	180 U	0.85 U	17000 U	10000 U	0.85 U	0.85 U	0.85 U	0.85 U	0.85 U
Tetrachloroethene	5840	1.4 U	160	8	2900	20000	14000	1200	20000	17	1700000	1000000	48	1.4 U	170	120	9.4
Toluene	730000	3	3.3	26	24 U	78 U	100 U	11 U	160 U	4.6	15000 U	9200 U	1.1	31	1.5	38	3.8
1,1,2-Trichloroethane	29	1.1 U	4.1	1.1 U	34 U	110 U	150 U	17 U	230 U	1.1 U	22000 U	13000 U	1.1 U	1.1 U	1.1 U	1.1 U	1.1 U
Trichloroethene	292	1.1 U	3.4	1.1 U	34 U	540	380	77	680	1.3	110000	67000	1.9	1.1 U	5.2	2.8	1.1 U
Vinyl chloride	929	0.51 U	0.51 U	0.51 U	16 U	53 U	71 U	7.8 U	110 U	0.51 U	10000 U	6200 U	0.51 U	1.1	0.51 U	0.51 U	0.51 U
Xylenes, Total	14600	3 U	3 U	7.7	95 U	320 U	420 U	46 U	630 U	3.6	60000 U	37000 U	3 U	73	3 U	3 U	3 U

Notes:

(1) Soil Gas Samples collected on January 31, 2018 represent confirmation samples for SG-FRSC-02S and SG-TSC-02S collected in December 2017.

(2) Soil Gas Screening Levels from the USEPA Vapor Intrusion Screening Level (VISL) Calculator - May 2018 - <https://www.epa.gov/vaporintrusion/visl-users-guide>

(3) Air samples analyzed by USEPA Method VOA-TO-15.

Shaded: Exceeds the Soil Gas Screening Level (SGSL)

 $\mu\text{g}/\text{m}^3$: micrograms per cubic meter

U : Indicates the analyte was analyzed for but not detected.

AMB : Bail Bonds Property

Bold: Exceeds the report limit

DUP : Duplicate sample of SG-TSC-05S

FRSC : Flint River Shopping Center

TSC : Tara Shopping Center

NP : Not published

Table 3

HSI 10798

Sub-slab Analytical Results

Tara Shopping Center, 8564 Tara Blvd., Jonesboro, GA

Sample ID	Soil Gas Screening Levels ⁽¹⁾ ($\mu\text{g}/\text{m}^3$)	Sub-slab Vapor Samples					
		TS-SS-A	TS-SS-B	TS-SS-C	TS-SS-CD (DUP)	TS-SS-D	TS-SS-E
		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Volatile Organic Compounds							
Acetone	4510000	38	13	5000 U	5400 U	290	180 U
Benzene	524	1.3 U	0.64 U	270 U	290 U	2.6 U	9.5 U
2-Butanone (MEK)	730000	2.9 U	2	620 U	670 U	14	22 U
Carbon disulfide	102000	3.1 U	1.6 U	650 U	700 U	6.4 U	23 U
Chloroform	178	2 U	0.98 U	410 U	440 U	4 U	14 U
Chloromethane	13100	2.1 U	1.0 U	430 U	470 U	4.3 U	15 U
cis-1,2-Dichloroethene	NP	1.6 U	0.79 U	330 U	360 U	3.3 U	12 U
Ethylbenzene	1640	1.7 U	0.87 U	360 U	390 U	3.6 U	13 U
Methylene Chloride	87600	3.5 U	1.7 U	730 U	780 U	7.5	26 U
Styrene	146000	1.7 U	0.85 U	360 U	380 U	3.5 U	13 U
Tetrachloroethene	5840	260	3.8	45000	49000	420	2600
Toluene	730000	1.8	2.1	320 U	340 U	18	11 U
1,1,2-Trichloroethane	29	2.2 U	1.1 U	460 U	490 U	4.5 U	16 U
Trichloroethene	292	2.1 U	1.1 U	670	770	4.4 U	16 U
Vinyl chloride	929	1.0 U	0.51 U	210 U	230 U	2.8	7.6 U
Xylenes, Total	14600	6.1 U	3.8	1300 U	1400 U	13 U	45 U

Notes:

(1) Soil Gas Screening Levels from the USEPA Vapor Intrusion Screening Level (VISL) Calculator - May 2018 - <https://www.epa.gov/vaporintrusion/visl-users-guide>

Shaded cells exceed the soil gas/sub-slab screening level (SGSL)

Bold: Constituent is higher than the laboratory report limit

 $\mu\text{g}/\text{m}^3$: micrograms per cubic meter

U : Indicates the analyte was not detected above laboratory reporting limits.

SS : sub-slab

NP : Soil Gas Screening Level not published at this time

DUP : Duplicate sample of TS-SS-C

Table 4

HSI 10798

Indoor/Outdoor Air Analytical Results

Tara Shopping Center, 8564 Tara Blvd., Jonesboro, GA

Sample ID	Non-Cancer Regional Screening Levels ⁽¹⁾ ($\mu\text{g}/\text{m}^3$)	Outdoor Air Samples		Indoor Air Samples			
		TS-OAS-U	TS-OAS-D	TS-IAS-B	TS-IAS-C	TS-IAS-D	TS-IAS-D-DUP
		3/20/2018	3/20/2018	3/20/2018	3/20/2018	3/20/2018	3/20/2018
Units		$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$
Volatile Organic Compounds							
Acetone	135000	12 U	12	41	12 U	12 U	12 U
Benzene	15.7	1.3	2.7	0.64 U	0.64 U	0.64 U	0.64 U
2-Butanone (MEK)	21900	1.5 U	2.8	1.9	1.5	1.5 U	1.5 U
Carbon disulfide	3070	1.6 U					
Chloroform	5.33	0.98 U	0.98 U	2.4	0.98 U	0.98 U	0.98 U
Chloromethane	394	1	1 U	1.3	1.2	1	1
cis-1,2-Dichloroethene	NP	0.79 U					
Ethylbenzene	49.1	0.87 U	1.1	0.87 U	0.87 U	0.87 U	0.87 U
Methylene Chloride	2630	4	3.6	1.7 U	1.7 U	1.7 U	2.2
Styrene	4380	0.85 U					
Tetrachloroethene	175	1.4	1.4 U	100	1.4 U	1.4 U	1.4 U
Toluene	21900	15	7.6	5.2	0.88	0.88	1.7
Trichloroethene	8.8	1.1 U	1.1 U	4.9	1.1 U	1.1 U	1.1 U
Vinyl chloride	27.9	0.51 U					
Xylenes, Total	438	3.0 U	4.8	3.0 U	3.0 U	3.0 U	3.0 U

Notes:

(1) USEPA Regional Screening Levels (RSLs) - Composite Worker Ambient Air Table - May 2018, as generated by the USEPA May 2018 VISL Calculator.

U : Indicates the analyte was analyzed for but not detected.

 $\mu\text{g}/\text{m}^3$: micrograms per cubic meter

Constituents analyzed by USEPA Method VOA-TO-15

DUP : Duplicate of TS-IAS-D

Bold: Constituent is higher than the laboratory report limit

OAS : Outdoor air sample

IAS : Indoor air sample

NP : Not published

Table 5
Cumulative Risk Screening
Tara Shopping Center, 8564 Tara Blvd., Jonesboro, GA

HSI 10798

			Indoor Air Samples											
Sample ID	Cancer Regional Screening Levels ⁽¹⁾	Non-Cancer Regional Screening Levels ⁽²⁾	TS-IAS-B			TS-IAS-C			TS-IAS-D			TS-IAS-D-DUP		
			3/20/2018 17:30			3/20/2018 18:05			3/20/2018 18:10			3/20/2018 18:10		
			µg/m³	Cancer Quotient	Non-Cancer Hazard Index	µg/m³	Cancer Quotient	Non-Cancer Hazard Index	µg/m³	Cancer Quotient	Non-Cancer Hazard Index	µg/m³	Cancer Risk	Non-Cancer Hazard Index
Volatile Organic Compounds	µg/m³	µg/m³			--									
Acetone	NP	135000	41	--	0.0003	12 U	--	--	12 U	--	--	12 U	--	--
Benzene	15.7	131	0.64 U	--	--	0.64 U	--	--	0.64 U	--	--	0.64 U	--	--
Carbon disulfide	NP	3070	1.6 U	--	--	1.6 U	--	--	1.6 U	--	--	1.6 U	--	--
Chloroform	5.33	428	2.4	4.50E-06	0.01	0.98 U	--	--	0.98 U	--	--	0.98 U	--	--
Chloromethane	NP	394	1.3	--	0.003	1.2	--	0.0030	1.0	--	0.002538071	1.0	--	0.002538071
cis-1,2-Dichloroethene	NP	NP	0.79 U	--	--	0.79 U	--	--	0.79 U	--	--	0.79 U	--	--
Ethylbenzene	49.1	4380	0.87 U	--	--	0.87 U	--	--	0.87 U	--	--	0.87 U	--	--
2-Butanone (MEK)	NP	21900	1.9	--	0.0001	1.5	--	0.0001	1.5 U	--	--	1.5 U	--	--
Methylene Chloride	12300	2630	1.7 U	--	--	1.7 U	--	--	1.7 U	--	--	2.2	1.7886E-09	0.000836502
Styrene	NP	4380	0.85 U	--	--	0.85 U	--	--	0.85 U	--	--	0.85 U	--	--
Tetrachloroethene	472	175	100	2.12E-06	0.57	1.4 U	--	--	1.4 U	--	--	1.4 U	--	--
Toluene	NP	21900	5.2	--	0.0002	0.88	--	0.00004	0.88	--	0.0000402	1.7	--	0.000078
Trichloroethene	29.9	8.76	4.9	1.64E-06	0.56	1.1 U	--	--	1.1 U	--	--	1.1 U	--	--
Vinyl chloride	27.9	438	0.51 U	--	--	0.51 U	--	--	0.51 U	--	--	0.51 U	--	--
Xylenes, Total	NP	438	3.0 U	--	--	3.0 U	--	--	3.0 U	--	--	3.0 U	--	--
Total Cumulative Risk				8.26E-06	1.0			0.003			0.003		1.8E-09	0.003

Notes:

(1) Cancer and Non-Cancer USEPA Regional Screening Levels (RSLs) - Composite Worker Ambient Air Table - May 2018, as generated by the USEPA May 2018 VISL Calculator.

-- : chemical not detected above the laboratory limit or does not have a screen criteria

NP : Screening value not published at this time

µg/m³ : micrograms per cubic meter

DUP : Duplicate of TS-IAS-D

Constituents analyzed by USEPA Method VOA-TO-15

U : Indicates the analyte was not detected above the laboratory reporting limit.

IAS : Indoor air sample

Bold : Constituent exceeds the laboratory reporting limit



Figures

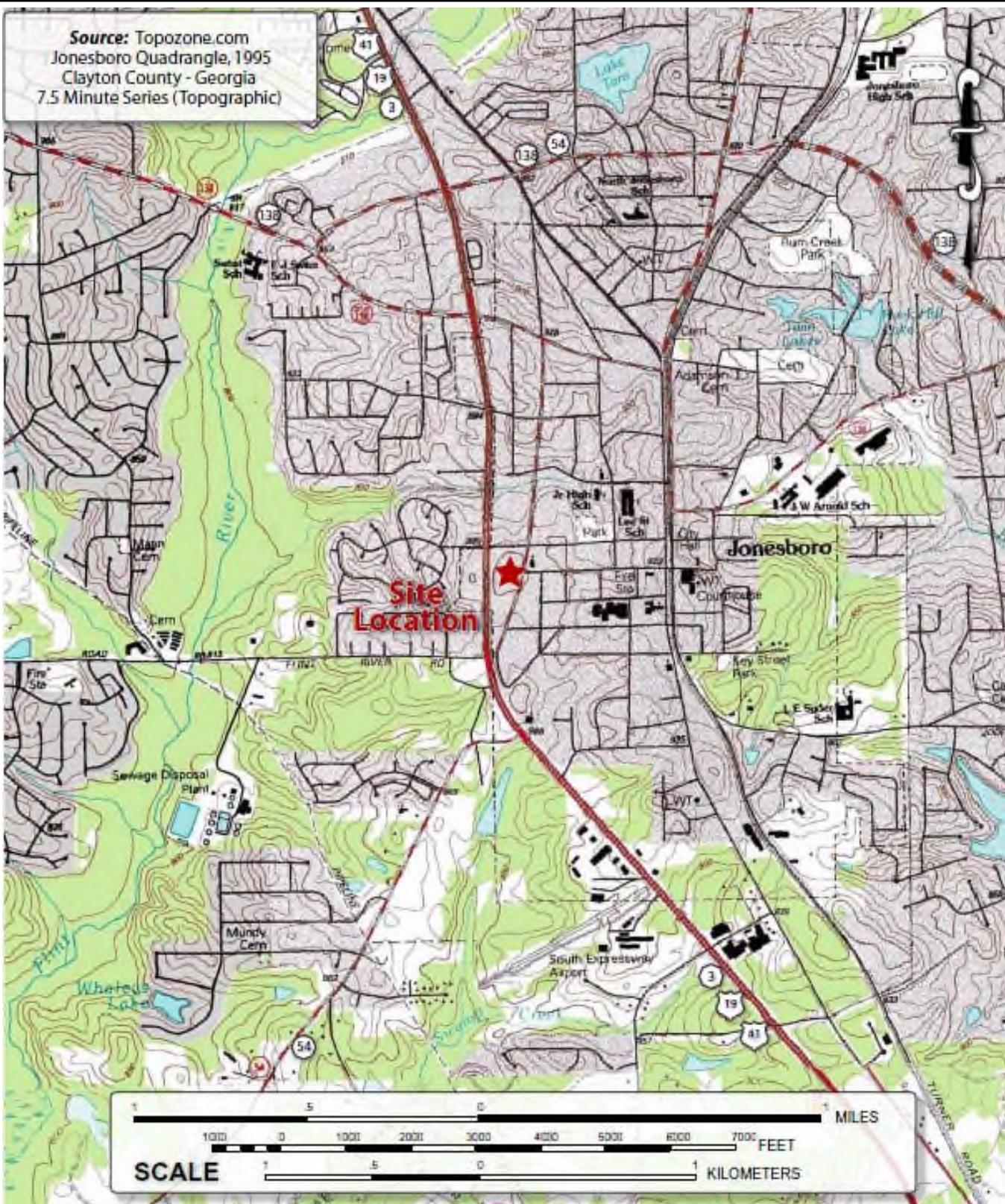
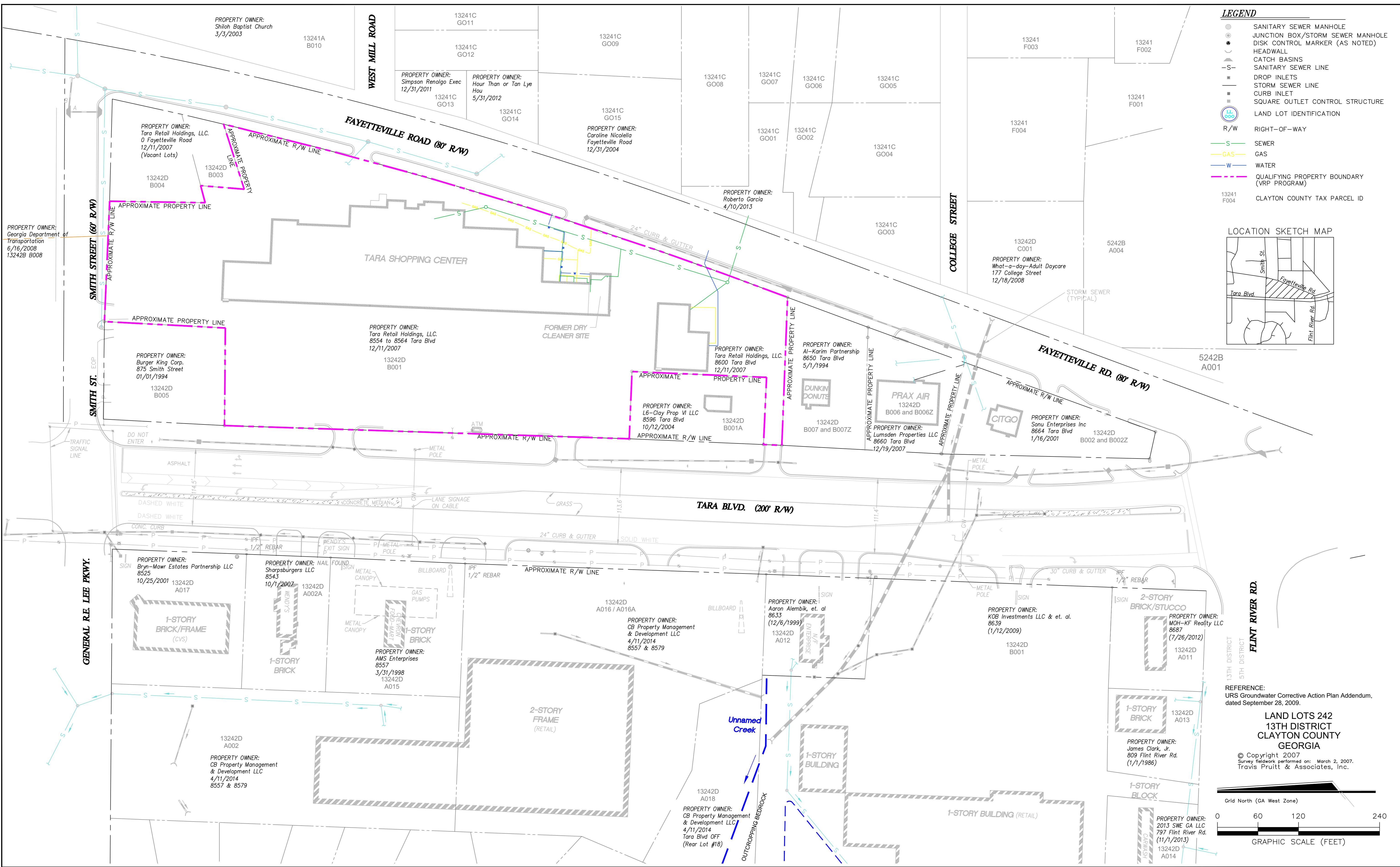
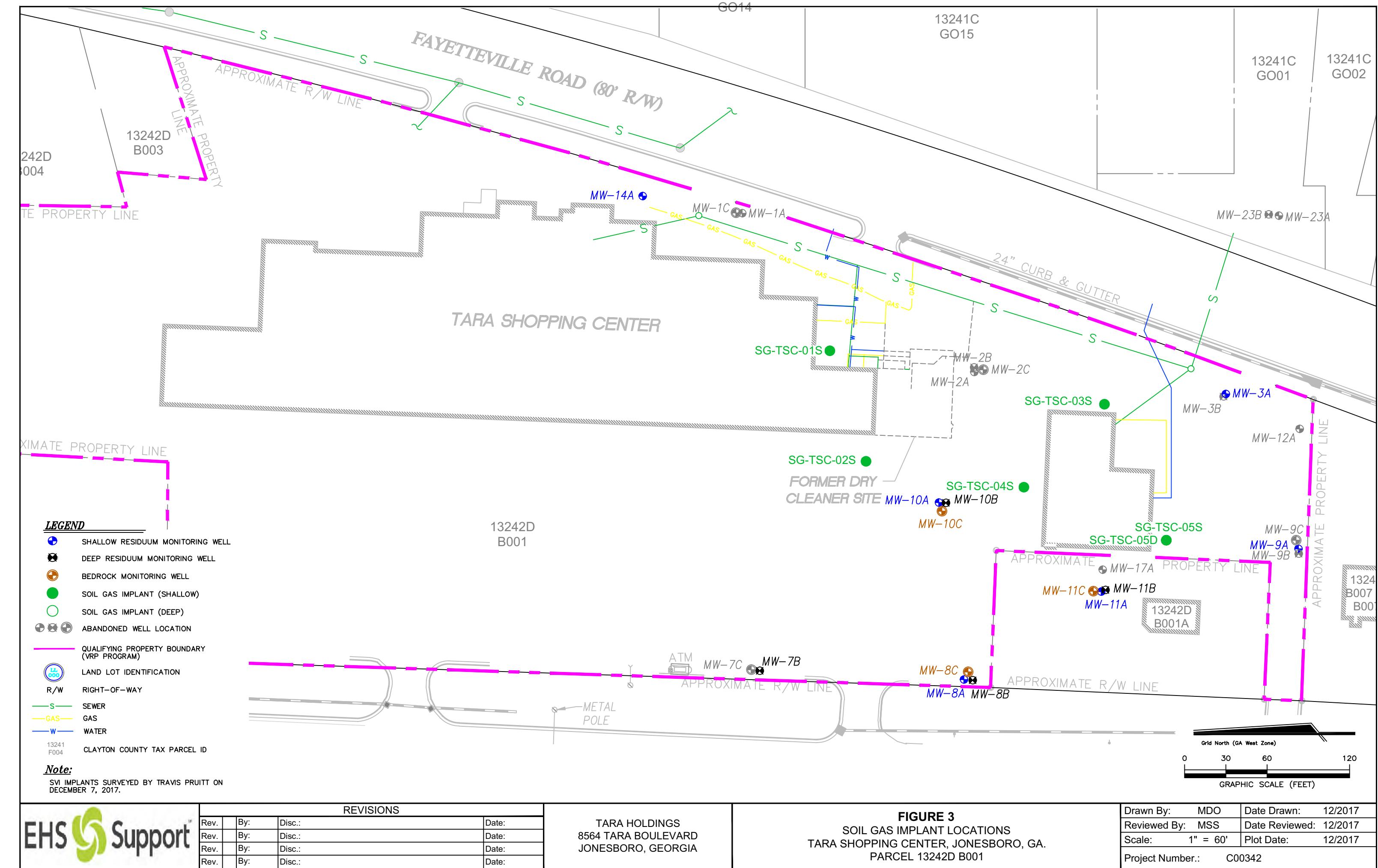
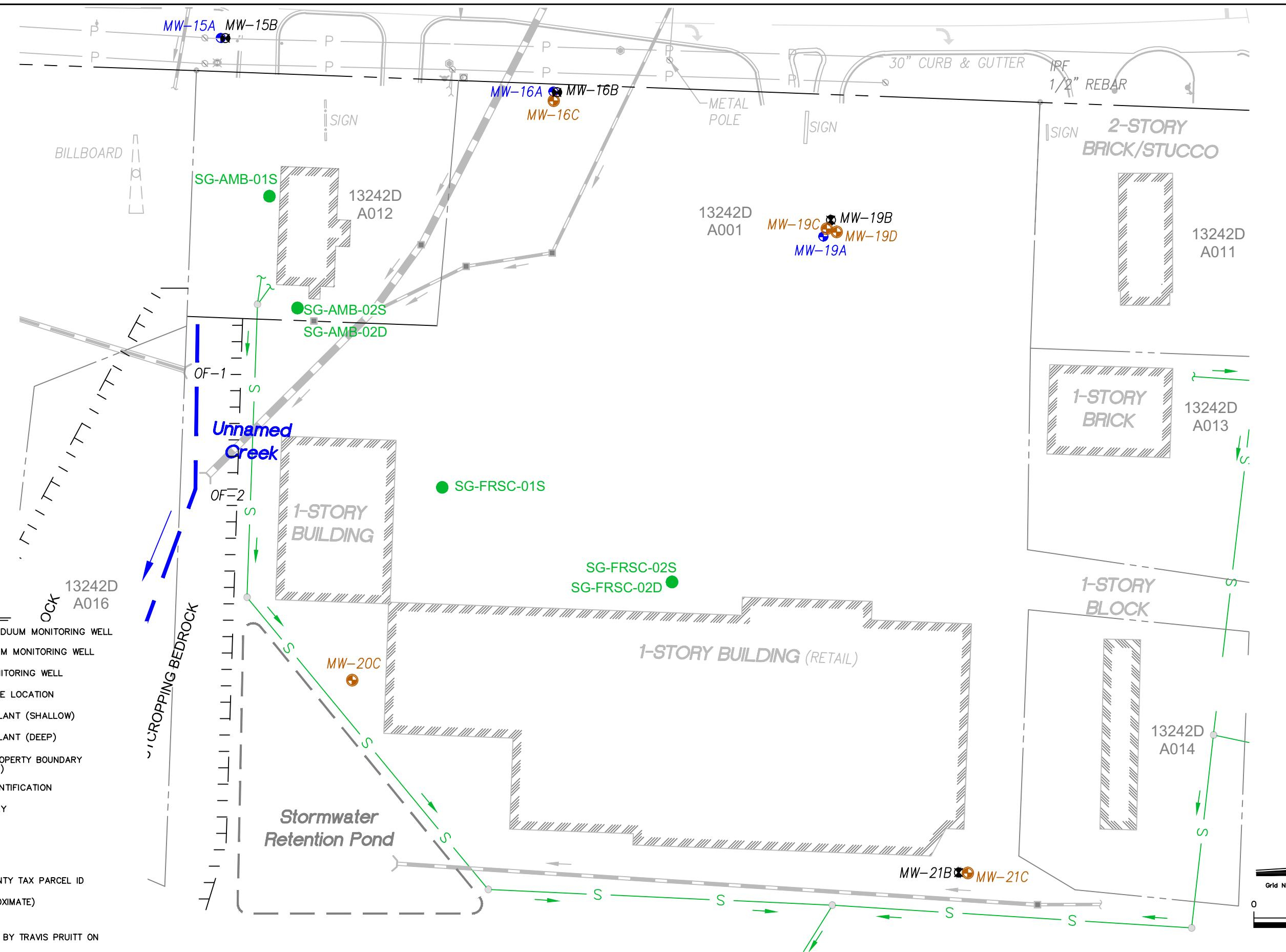
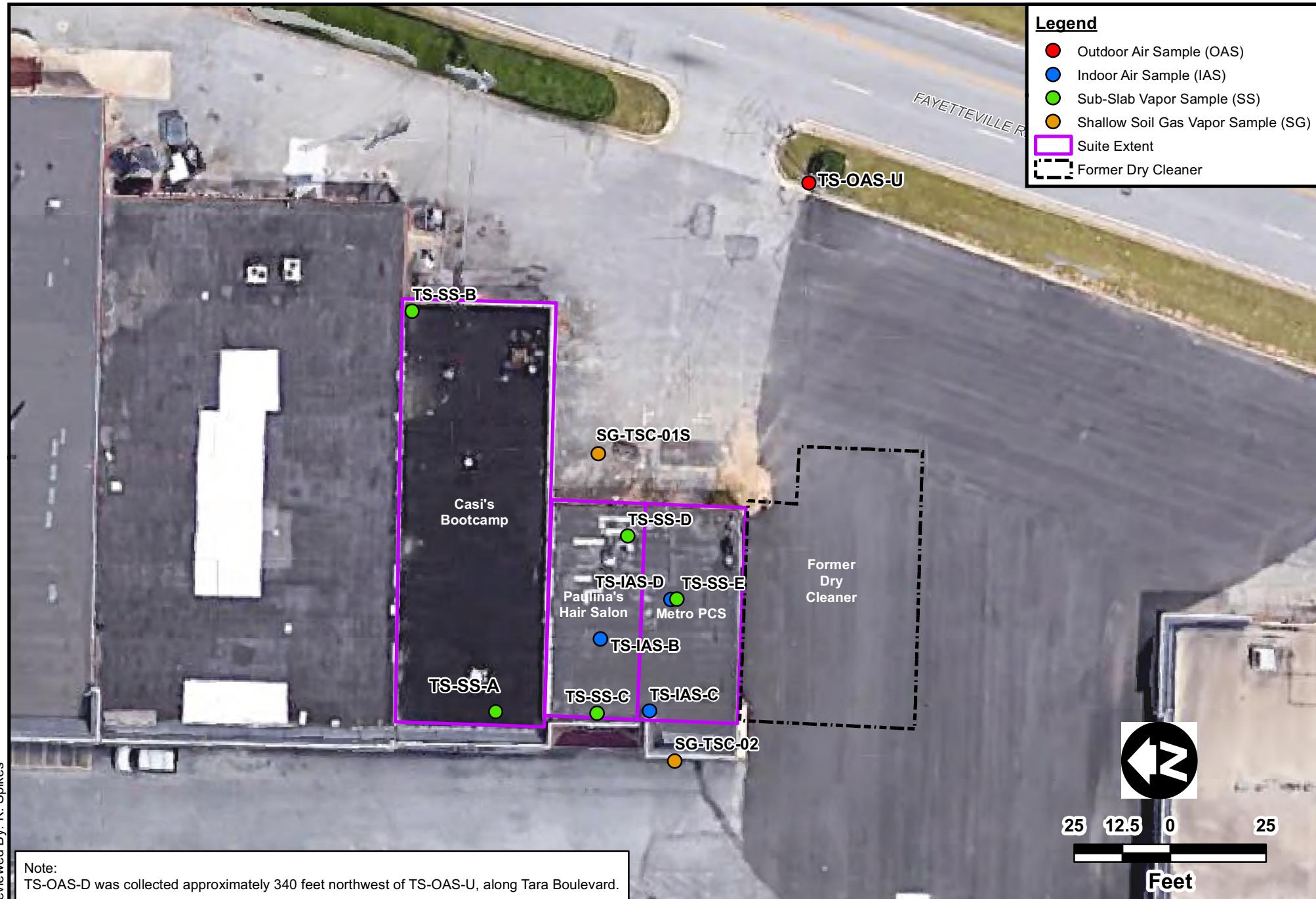


FIGURE 1
SITE LOCATION MAP
 TARA SHOPPING CENTER
 8564 TARA BOULEVARD
 JONESBORO, CLAYTON COUNTY, GEORGIA
 HSI # 10798











Appendix A Building Survey Forms



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Kris Spikes Date: 03/12/18
Preparer's affiliation: EHS Support Phone #: _____
Site Name: Ashland Alterman Case #: _____

Part I - Occupants

Building Address: Casi's Boot Camp
Property Contact: Casi Owner / Renter / other: _____
Contact's Phone: home () _____ work () _____ cell (609) 437-8145
of Building occupants: Children under age 13 _____ Children age 13-18 _____ Adults Varies

Part II - Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: Open suite with small storage in back Year constructed: _____

Sensitive population: day care / nursing home / hospital / school / other (specify): No

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 1

Depth of basement below grade surface: N/A ft. Basement size: N/A ft²

Basement floor construction: concrete / dirt / floating / stone / other (specify): N/A

Foundation walls: poured concrete cinder blocks / stone / other (specify) _____

N/A — Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): gas

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene

N/A — Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Septic system? Yes / Yes (but not used) / No

Irrigation/private well? Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes / No active / passive

Sub-slab vapor/in moisture barrier in place? Yes / No

Type of barrier: _____

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): _____

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): _____

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment	Furnace in back storage area	
Kerosene storage cans		
Paints / thinners / strippers	1-gallon paint bucket	
Cleaning solvents	Windex	
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners	Front bathroom - spray can	
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.	Glue under carpet up front, not in western sample area.	

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes / No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes / No

If so, when and which chemicals? _____

Unknown Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes No

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Kris Spikes & Mark Smith Phone number: (618) 522 - 6050

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister Other (specify): _____

Analytical Method: TO-15 TO-17 / other: _____ Cert. Laboratory: Test America

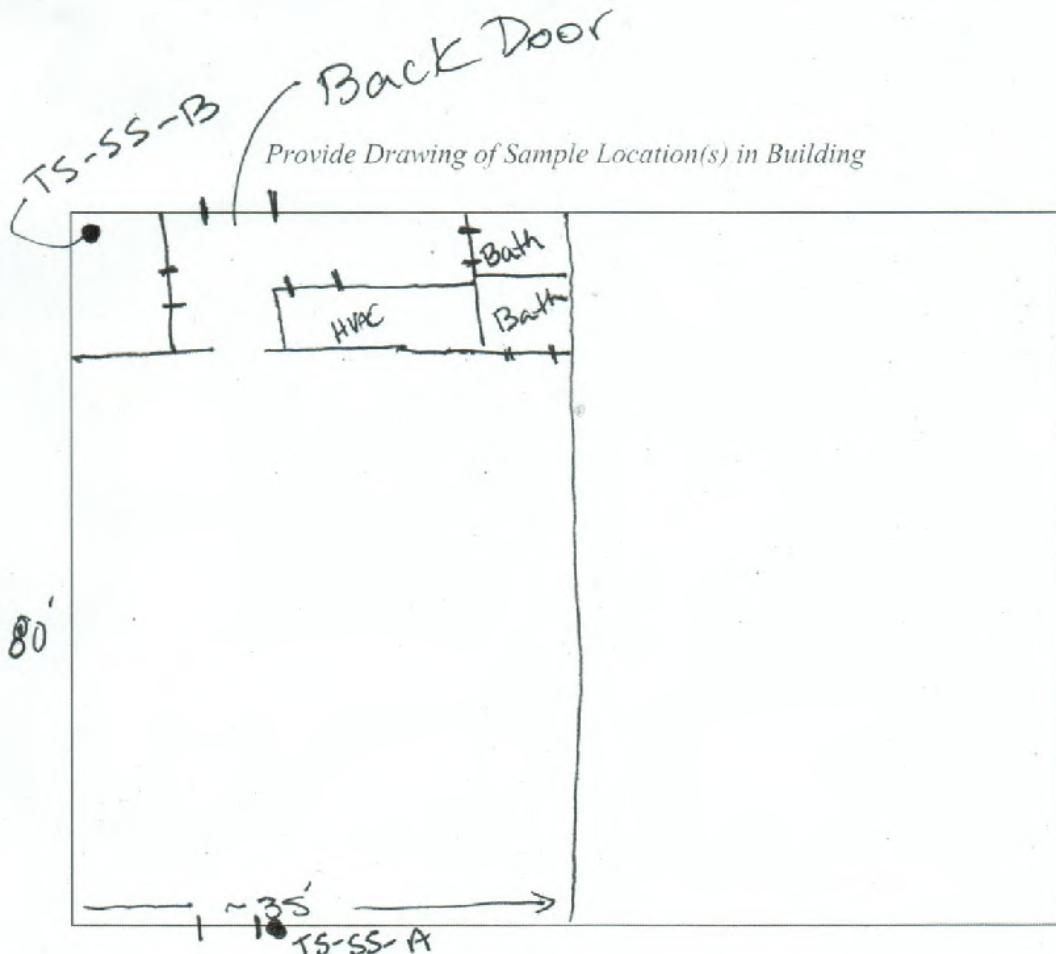
Sample locations (floor, room):

Field ID # TS - SS-A Field ID # _____

Field ID # TS - SS-B Field ID # _____

Were "Instructions for Occupants" followed? Yes No

If not, describe modifications: _____



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions: Overcast , 30's - 50's

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Kris Spikes Date: 03/12/18

Preparer's affiliation: EHS Support Phone #: 618-522-6050

Site Name: Ashland Alterman Case #:

Part I - Occupants

Building Address: Metro PCS

Property Contact: Mohammad Judeh Owner / Renter / other: _____

Unknown Contact's Phone: home () _____ work () _____ cell () _____

of Building occupants: Children under age 13 _____ Children age 13-18 _____ Adults Janes

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: _____ Year constructed: _____

Sensitive population: day care / nursing home / hospital / school / other (specify): No

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 1

N/A Depth of basement below grade surface: _____ ft. Basement size: _____ ft²

N/A Basement floor construction: concrete / dirt / floating / stone / other (specify): _____

Foundation walls: poured concrete / cinder blocks / stone / other (specify) _____

Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): gas

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene

Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Septic system? Yes / Yes (but not used) / No

Irrigation/private well? Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes / No active / passive

Sub-slab vapor/moisture barrier in place? Yes / No

Type of barrier: _____

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): _____

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): _____

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners	Four spray cans	
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.		

Windex - 1 gal

Fabuloso - 1 gal

Bleach - 1/2 gal

Clorox Wipes - 2 cans

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes / No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes / No

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes / No

Do the occupants of the building have their clothes dry cleaned? Yes / No

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes / No

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Yes / No

Have any pesticides/herbicides been applied around the building or in the yard? Yes / No

If so, when and which chemicals? _____

Unknown Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes / No

If yes, when _____ and where? *Renovations in June 2017*

Part VI – Sampling Information

Sample Technician: *Kris Spikes* Phone number: (618) 522-6080

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 / TO-17 / other: _____ Cert. Laboratory: *Test America*

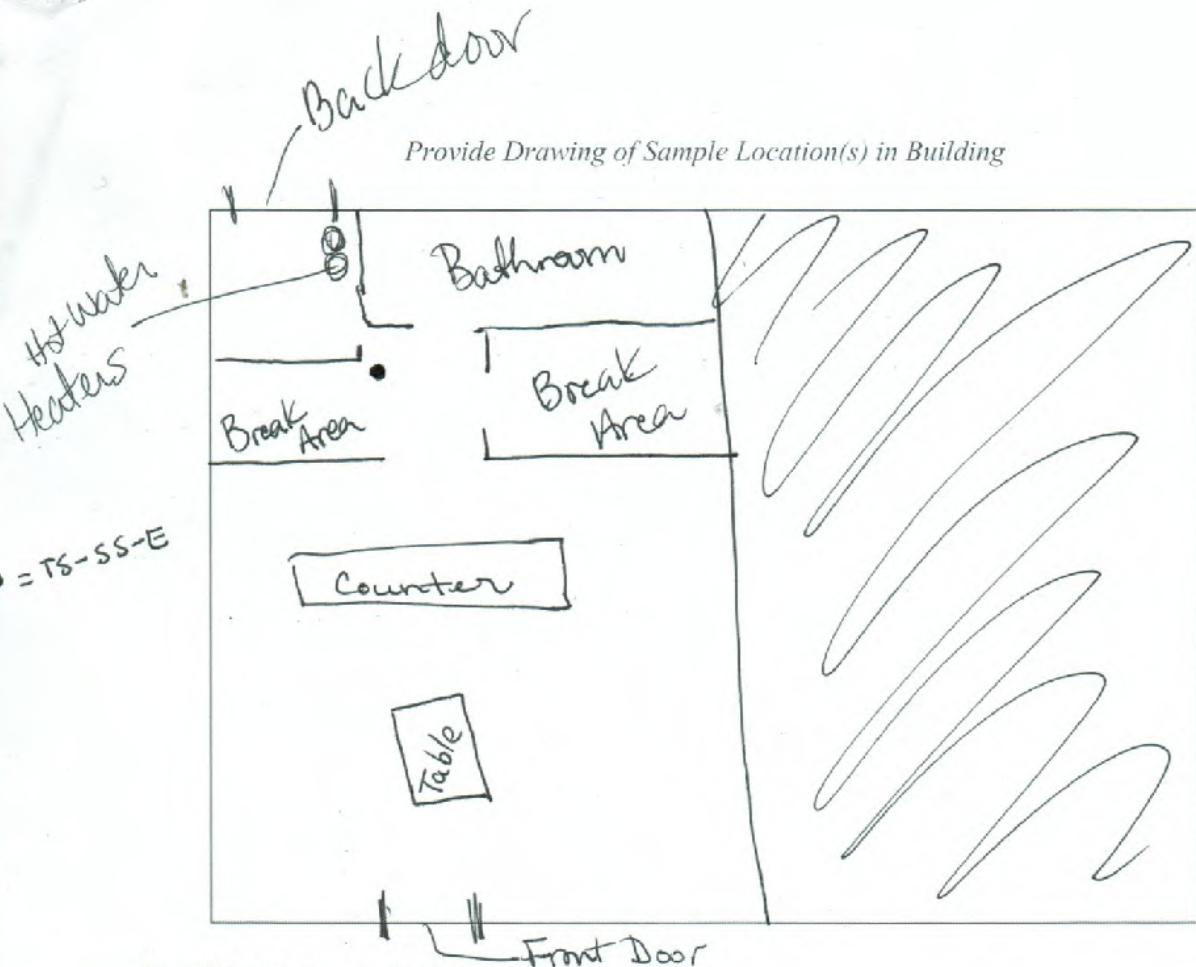
Sample locations (floor, room):

Field ID # *TS - 88 - E* Field ID # _____

Field ID # _____ Field ID # _____

Were "Instructions for Occupants" followed? Yes / No

If not, describe modifications: _____



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes / No

Describe the general weather conditions:

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



New Jersey Department of Environmental Protection

INDOOR AIR BUILDING SURVEY
and SAMPLING FORM

Preparer's name: Kris Spikes Date: 03/12/18

Preparer's affiliation: EHS Support Phone #: 678-522-4050

Site Name: Ashland Alterman Case #:

Part I - Occupants

Building Address: Paulina's Hair Salon

Property Contact: Isha Owner / Renter / other: _____

Contact's Phone: home () _____ work () _____ cell (404) 379-4623

of Building occupants: Children under age 13 _____ Children age 13-18 _____ Adults Varies

Part II – Building Characteristics

Building type: residential / multi-family residential / office / strip mall / commercial / industrial

Describe building: _____ Year constructed: _____

Sensitive population: day care / nursing home / hospital / school / other (specify): No

Number of floors below grade: 0 (full basement / crawl space / slab on grade)

Number of floors at or above grade: 1

N/A Depth of basement below grade surface: _____ ft. Basement size: _____ ft²

NA Basement floor construction: concrete / dirt / floating / stone / other (specify): _____

Foundation walls: poured concrete / cinder blocks / stone / other (specify) _____

N/A Basement sump present? Yes / No Sump pump? Yes / No Water in sump? Yes / No

Type of heating system (circle all that apply):

hot air circulation hot air radiation wood steam radiation
heat pump hot water radiation kerosene heater electric baseboard
other (specify): gas

Type of ventilation system (circle all that apply):

central air conditioning mechanical fans bathroom ventilation fans
individual air conditioning units kitchen range hood fan outside air intake
other (specify): _____

Type of fuel utilized (circle all that apply):

Natural gas / electric / fuel oil / wood / coal / solar / kerosene

N/A Are the basement walls or floor sealed with waterproof paint or epoxy coatings? Yes / No

Is there a whole house fan? Yes / No

Septic system? Yes / Yes (but not used) / No

Irrigation/private well? Yes / Yes (but not used) / No

Type of ground cover outside of building: grass / concrete / asphalt / other (specify) _____

Existing subsurface depressurization (radon) system in place? Yes / No active / passive

Sub-slab vapor/moisture barrier in place? Yes / No

Type of barrier: _____

Part III - Outside Contaminant Sources

NJDEP contaminated site (1000-ft. radius): _____

Other stationary sources nearby (gas stations, emission stacks, etc.): _____

Heavy vehicular traffic nearby (or other mobile sources): _____

Part IV – Indoor Contaminant Sources

Identify all potential indoor sources found in the building (including attached garages), the location of the source (floor and room), and whether the item was removed from the building 48 hours prior to indoor air sampling event. Any ventilation implemented after removal of the items should be completed at least 24 hours prior to the commencement of the indoor air sampling event.

Potential Sources	Location(s)	Removed (Yes / No / NA)
Gasoline storage cans		
Gas-powered equipment		
Kerosene storage cans		
Paints / thinners / strippers		
Cleaning solvents		
Oven cleaners		
Carpet / upholstery cleaners		
Other house cleaning products		
Moth balls		
Polishes / waxes		
Insecticides		
Furniture / floor polish		
Nail polish / polish remover		
Hairspray		
Cologne / perfume		
Air fresheners		
Fuel tank (inside building)		NA
Wood stove or fireplace		NA
New furniture / upholstery		
New carpeting / flooring		NA
Hobbies - glues, paints, etc.		

Handwritten notes:
 Hair color
 Nail Polish remover
 mousse
 Germicide

Part V – Miscellaneous Items

Do any occupants of the building smoke? Yes / No How often? _____

Last time someone smoked in the building? _____ hours / days ago

Does the building have an attached garage directly connected to living space? Yes / No

If so, is a car usually parked in the garage? Yes /

Are gas-powered equipment or cans of gasoline/fuels stored in the garage? Yes /

Do the occupants of the building have their clothes dry cleaned? Yes /

If yes, how often? weekly / monthly / 3-4 times a year

Do any of the occupants use solvents in work? Yes /

If yes, what types of solvents are used? Nail polish remover

If yes, are their clothes washed at work? Yes /

Have any pesticides/herbicides been applied around the building or in the yard? Yes /

If so, when and which chemicals? _____

unknowd Has there ever been a fire in the building? Yes / No If yes, when? _____

Has painting or staining been done in the building in the last 6 months? Yes /

If yes, when _____ and where? _____

Part VI – Sampling Information

Sample Technician: Kris Spikes Phone number: (618) 522-4080

Sample Source: Indoor Air / Sub-Slab / Near Slab Soil Gas / Exterior Soil Gas

Sampler Type: Tedlar bag / Sorbent / Stainless Steel Canister / Other (specify): _____

Analytical Method: TO-15 TO-17 / other: _____ Cert. Laboratory: _____

Sample locations (floor, room):

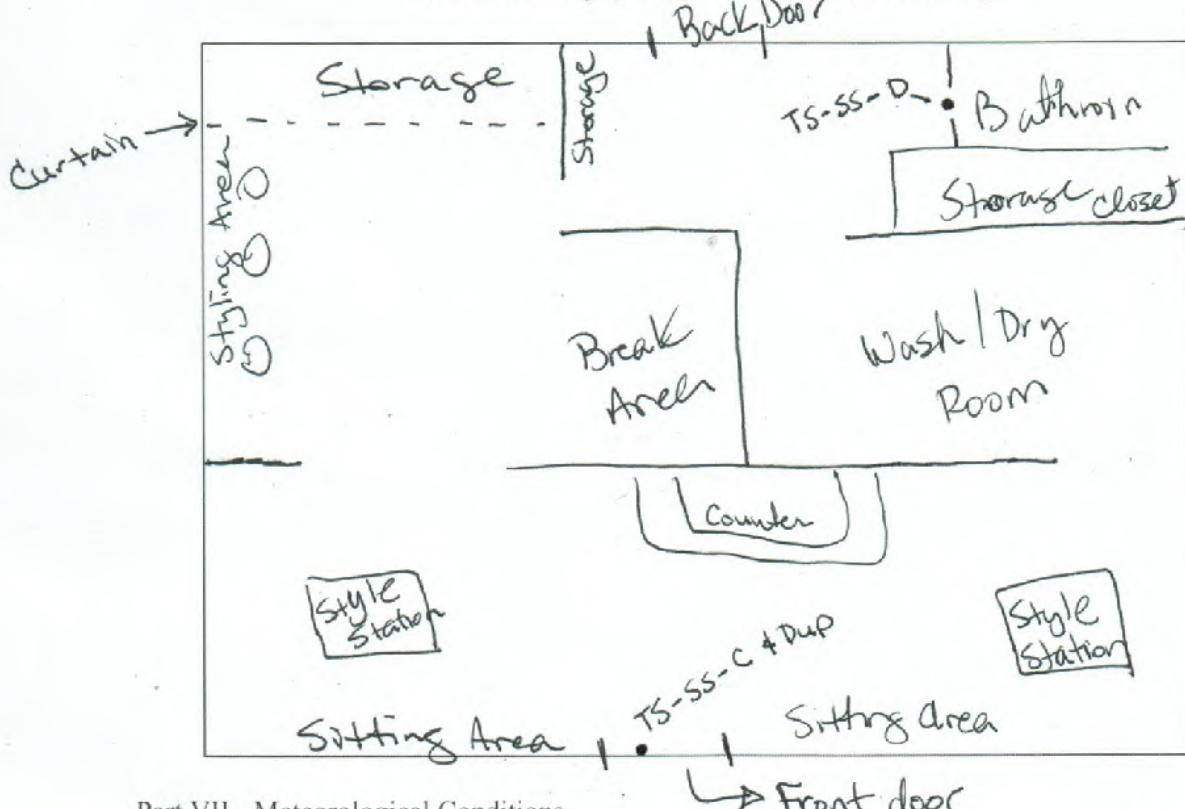
Field ID # TS - SS - C Field ID # _____

Field ID # TS - SS - CD (dup) Field ID # _____

Were "Instructions for Occupants" followed? Yes /

If not, describe modifications: _____

Provide Drawing of Sample Location(s) in Building



Part VII - Meteorological Conditions

Was there significant precipitation within 12 hours prior to (or during) the sampling event? Yes No

Describe the general weather conditions: _____

Part VIII – General Observations

Provide any information that may be pertinent to the sampling event and may assist in the data interpretation process.

No hair dye or nail polish remover was used during Sampling event.

(NJDEP 1997; NHDES 1998; VDOH 1993; MassDEP 2002; NYSDOH 2005; CalEPA 2005)



Appendix B Boring Logs

Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/26/2017

Date Finished: 10/26/2017

Ground Surface Elevation (NAVD88): 882.20

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236408.56 Northing: 1280299.12 Total Depth (ft): 20

Drilling Method: Direct Push

Borehole Diameter: 2 inch

Rig Type: PowerProbe

Casing Diameter (in) / Type: 2 inch

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 2 inch / MacroCore

Drilled by: Russ Marlow

Logged by: Tim Davis

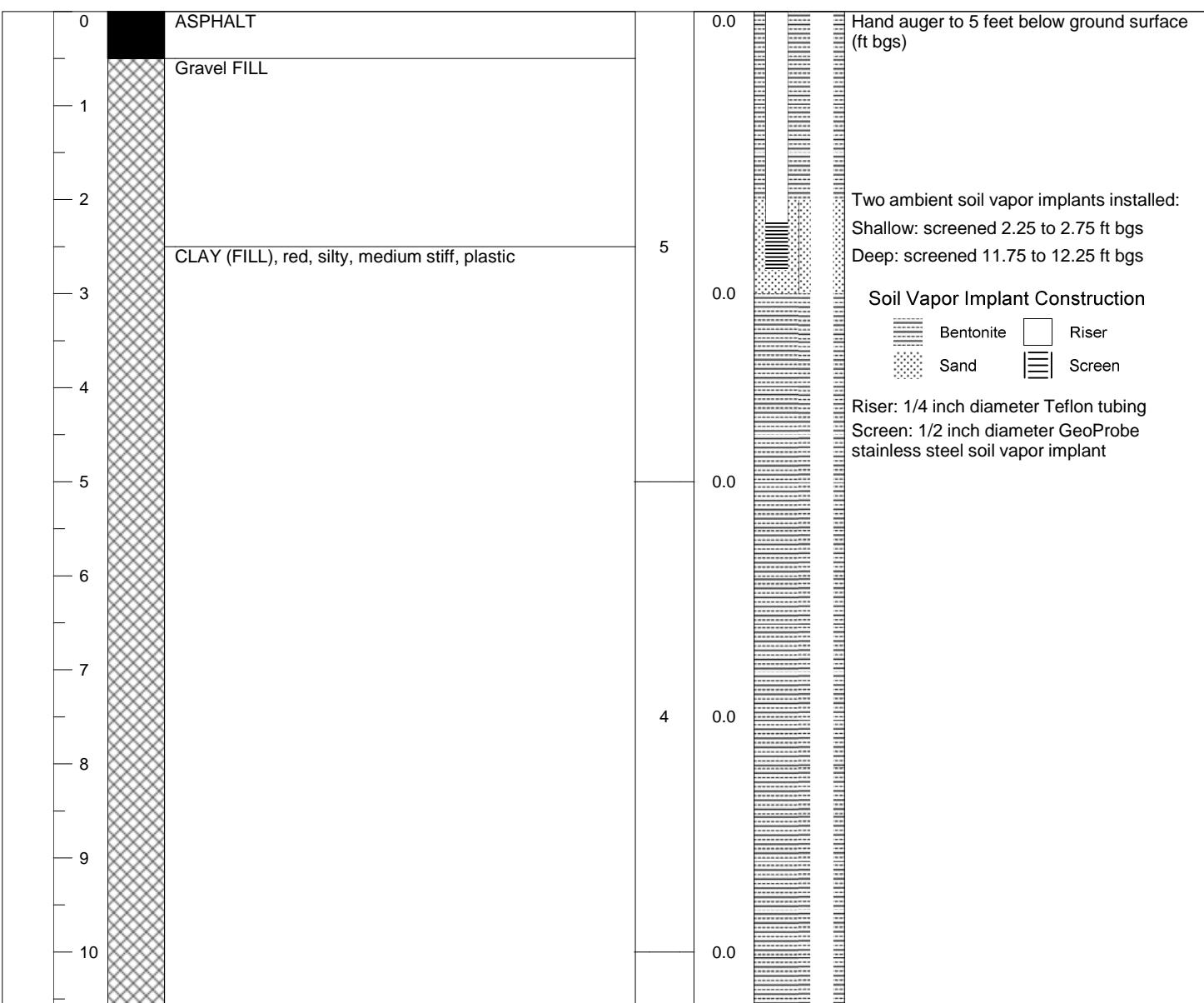
Sketch Map

Client: Ashland LLC

Project Number: C00342

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

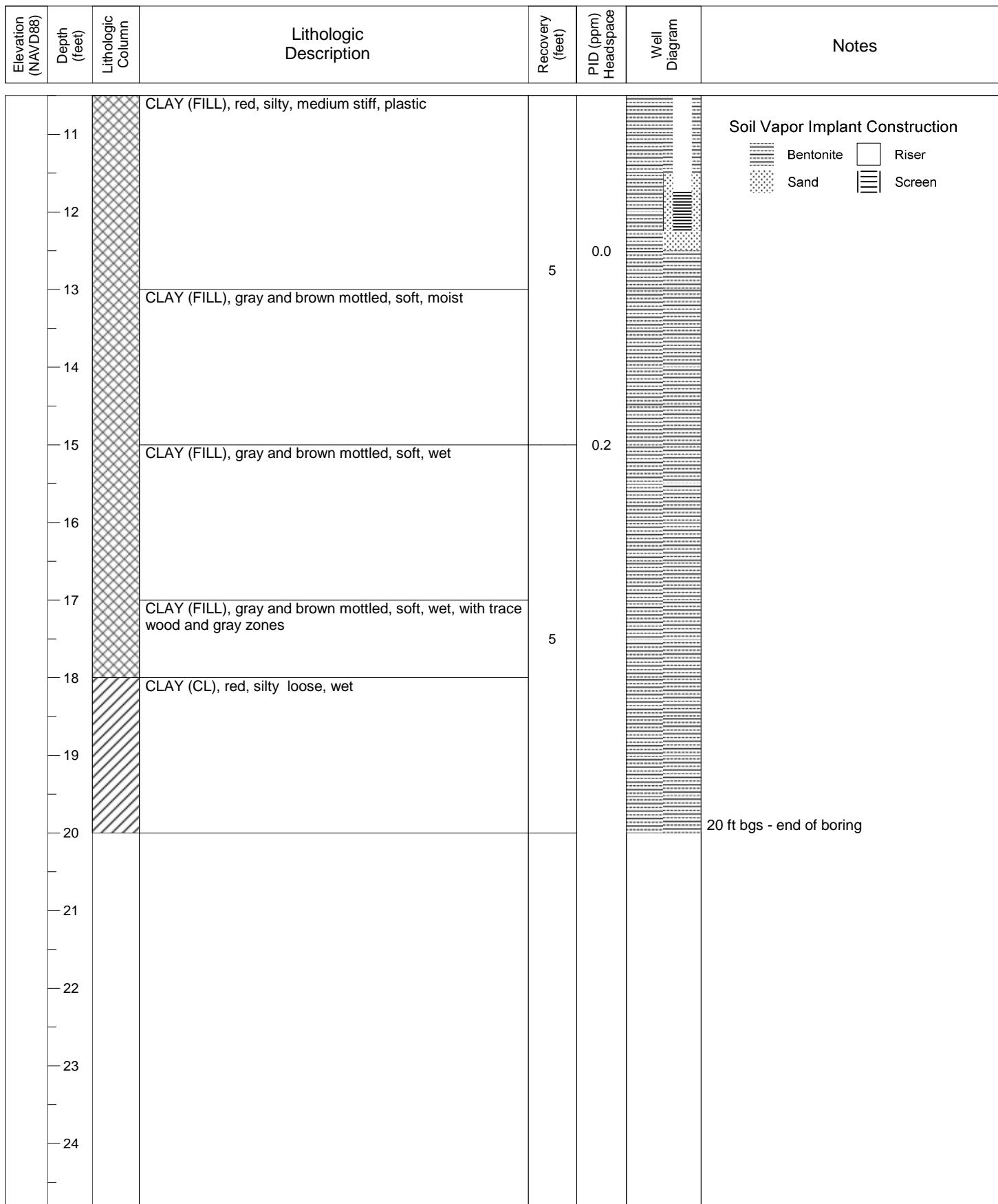
Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): 15.0

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-AMB-01

Page: 1 of 2



Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): 15.0

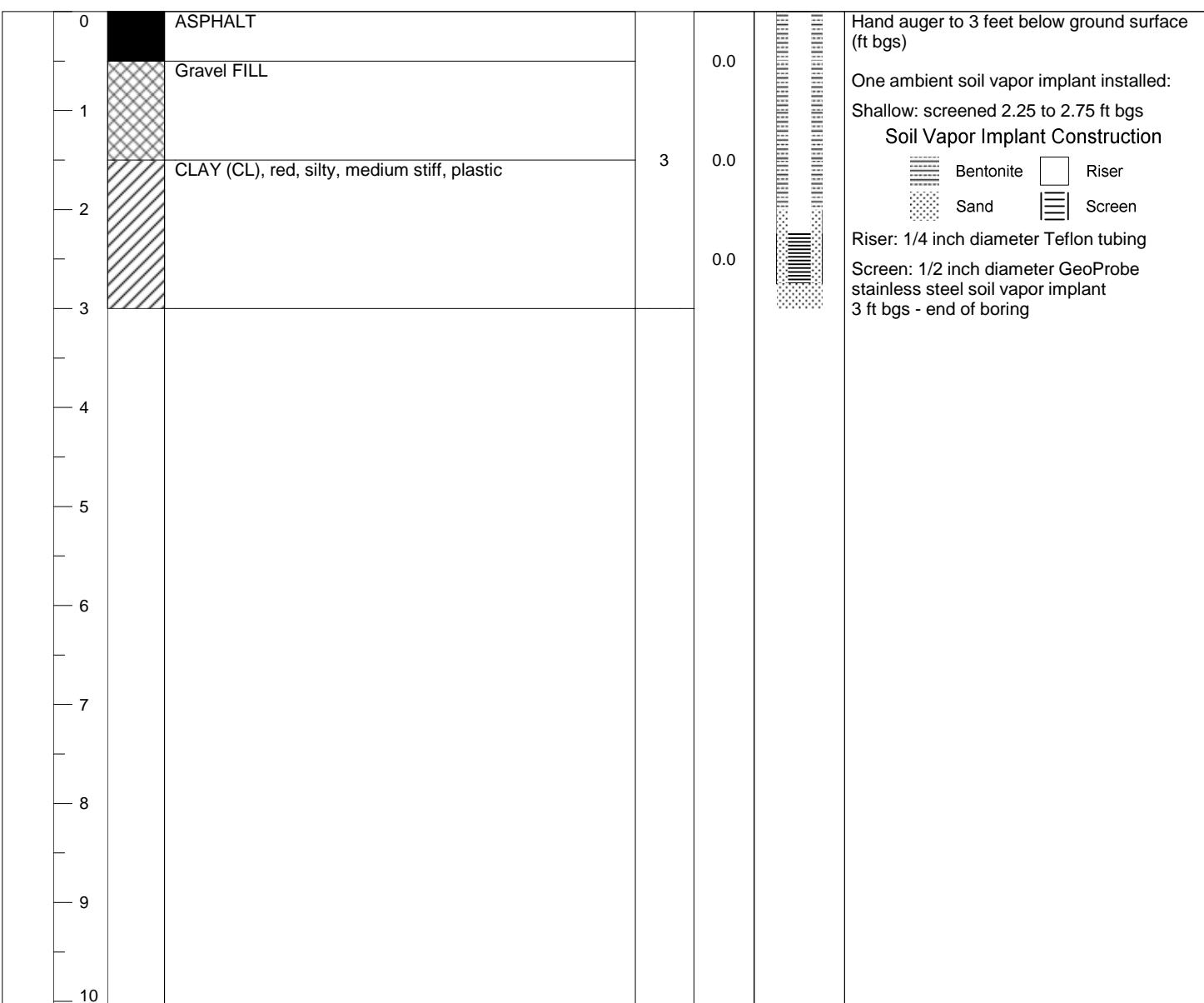
Depth to water in borehole after drilling (ft bgs): NA

Location: SG-AMB-01

Page: 2 of 2

Project / Site: Ashland Alterman		Sketch Map	
Location / Address: Jonesboro, GA			
Date Started: 10/26/2017	Date Finished: 10/26/2017		
Ground Surface Elevation (NAVD88): 881.88	Top of Casing Elevation (NAVD88): NA		
GA State Plane (NAD83) Easting: 2236340.34	Northing: 1280282.02		
Total Depth (ft): 3			
Drilling Method: Hand Auger	Borehole Diameter: 3 inch		
Rig Type: NA	Casing Diameter (in) / Type: NA		
Drilling Company: Geo Lab Drilling, Inc.	Sampler Diameter (in) / Type: 3 inch / Hand Auger		
Drilled by: Russ Marlow	Logged by: Tim Davis	EHS Support PM: M. Stayrook	

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes: Soil classification based on the Unified Soil Classification System (USCS)	Depth to water in borehole during drilling (ft bgs): <u>NA</u> Depth to water in borehole after drilling (ft bgs): <u>NA</u>	Boring: SG-AMB-02 Page: 1 of 1
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Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/25/2017

Date Finished: 10/25/2017

Ground Surface Elevation (NAVD88): 877.89

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236230.97 Northing: 1280193.73 Total Depth (ft): 7

Drilling Method: Direct Push Borehole Diameter: 2 inch

Rig Type: PowerProbe

Casing Diameter (in) / Type: 2 inch

Sketch Map

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 2 inch / MacroCore

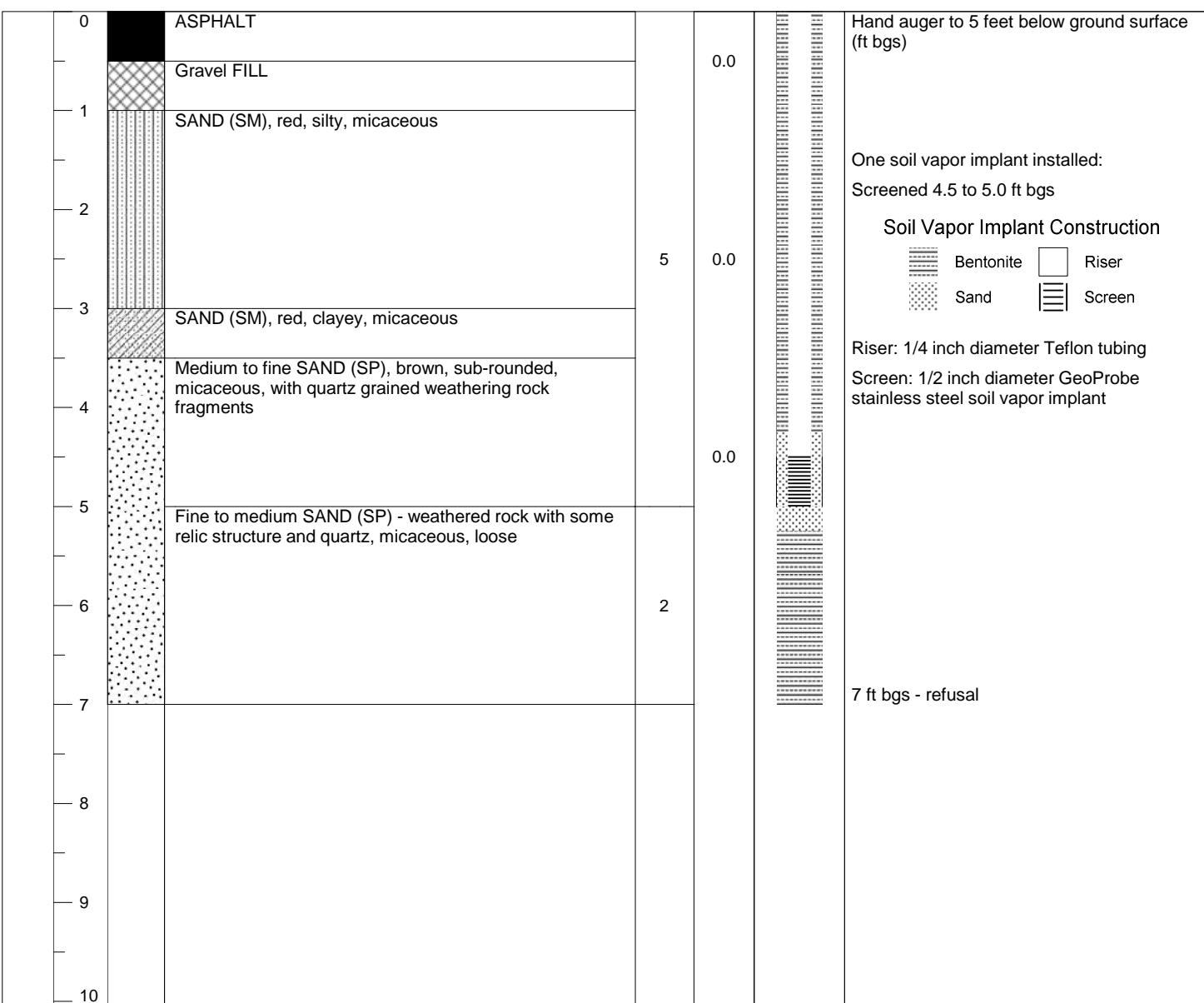
Project Number: C00342

Drilled by: Russ Marlow

Logged by: Tim Davis

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): NA

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-FRSC-01

Page: 1 of 1

Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/25/2017

Date Finished: 10/25/2017

Ground Surface Elevation (NAVD88): 876.49

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236173.25 Northing: 1280053.63 Total Depth (ft): 15

Drilling Method: Direct Push

Borehole Diameter: 2 inch

Rig Type: PowerProbe

Casing Diameter (in) / Type: 2 inch

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 2 inch / MacroCore

Drilled by: Russ Marlow

Logged by: Tim Davis

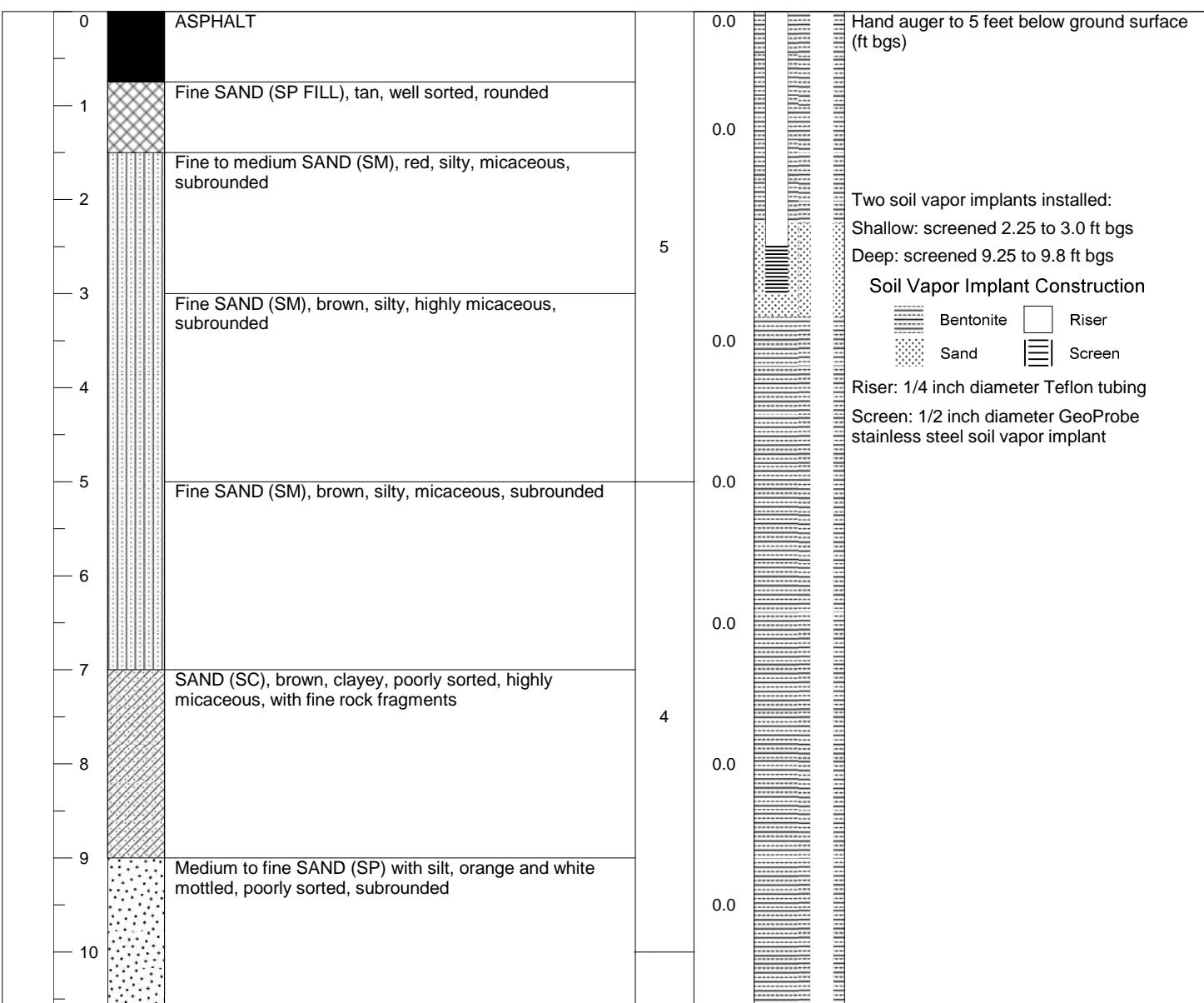
Sketch Map

Client: Ashland LLC

Project Number: C00342

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): 13.0

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-FRSC-02

Page: 1 of 2

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
11			Medium to fine SAND (SP) with silt, orange and white mottled, poorly sorted, subrounded				
12			Medium to fine SAND (SP) with silt, orange and white mottled, poorly sorted, subrounded, moist to wet				
13			SAPROLITE, white and brown mottled, sandy, with silt, medium to fine sand, subrounded grains, poorly sorted, with fine blocky rock fragments and relic structure, wet				
14							
15							15 ft bgs - end of boring
16							
17							
18							
19							
20							
21							
22							
23							
24							

Notes: Soil classification based on the Unified Soil Classification System (USCS)	Depth to water in borehole during drilling (ft bgs): <u>13.0</u> Depth to water in borehole after drilling (ft bgs): <u>NA</u>	Location: SG-FRSC-02 Page: 2 of 2
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Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/26/2017

Date Finished: 10/26/2017

Ground Surface Elevation (NAVD88): 898.69

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236932.57 Northing: 1280664.56 Total Depth (ft): 3

Drilling Method: Hand Auger

Borehole Diameter: 3 inch

Rig Type: NA

Casing Diameter (in) / Type: NA

Sketch Map

Client: Ashland LLC

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 3 inch / Hand Auger

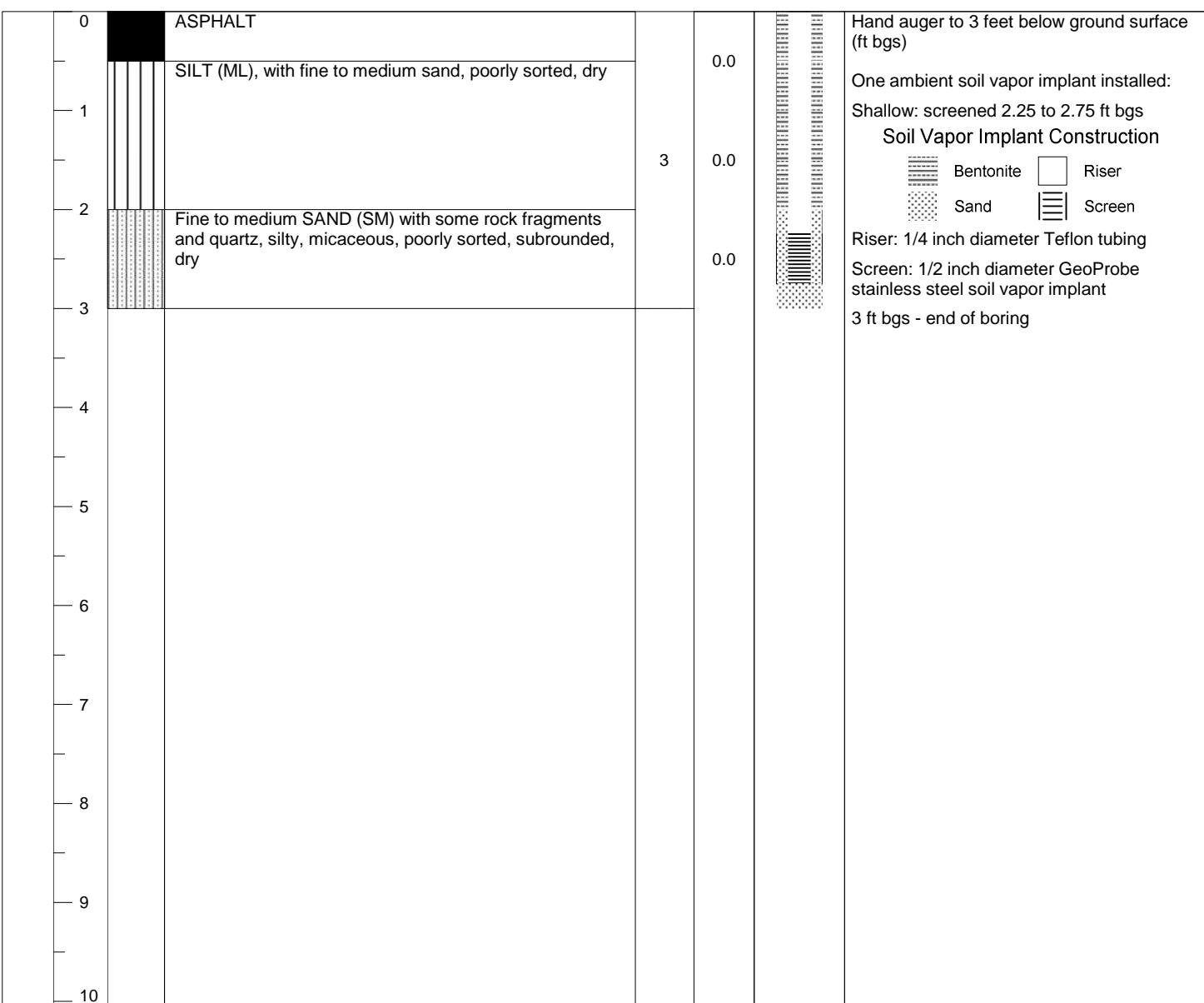
Project Number: C00342

Drilled by: Russ Marlow

Logged by: Tim Davis

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): NA

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-TSC-01

Page: 1 of 1

Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/26/2017

Date Finished: 10/26/2017

Ground Surface Elevation (NAVD88): 898.48

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236851.85 Northing: 1280368.20 Total Depth (ft): 5

Drilling Method: Hand Auger

Borehole Diameter: 3 inch

Rig Type: NA

Casing Diameter (in) / Type: NA

Sketch Map

Client: Ashland LLC

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 3 inch / Hand Auger

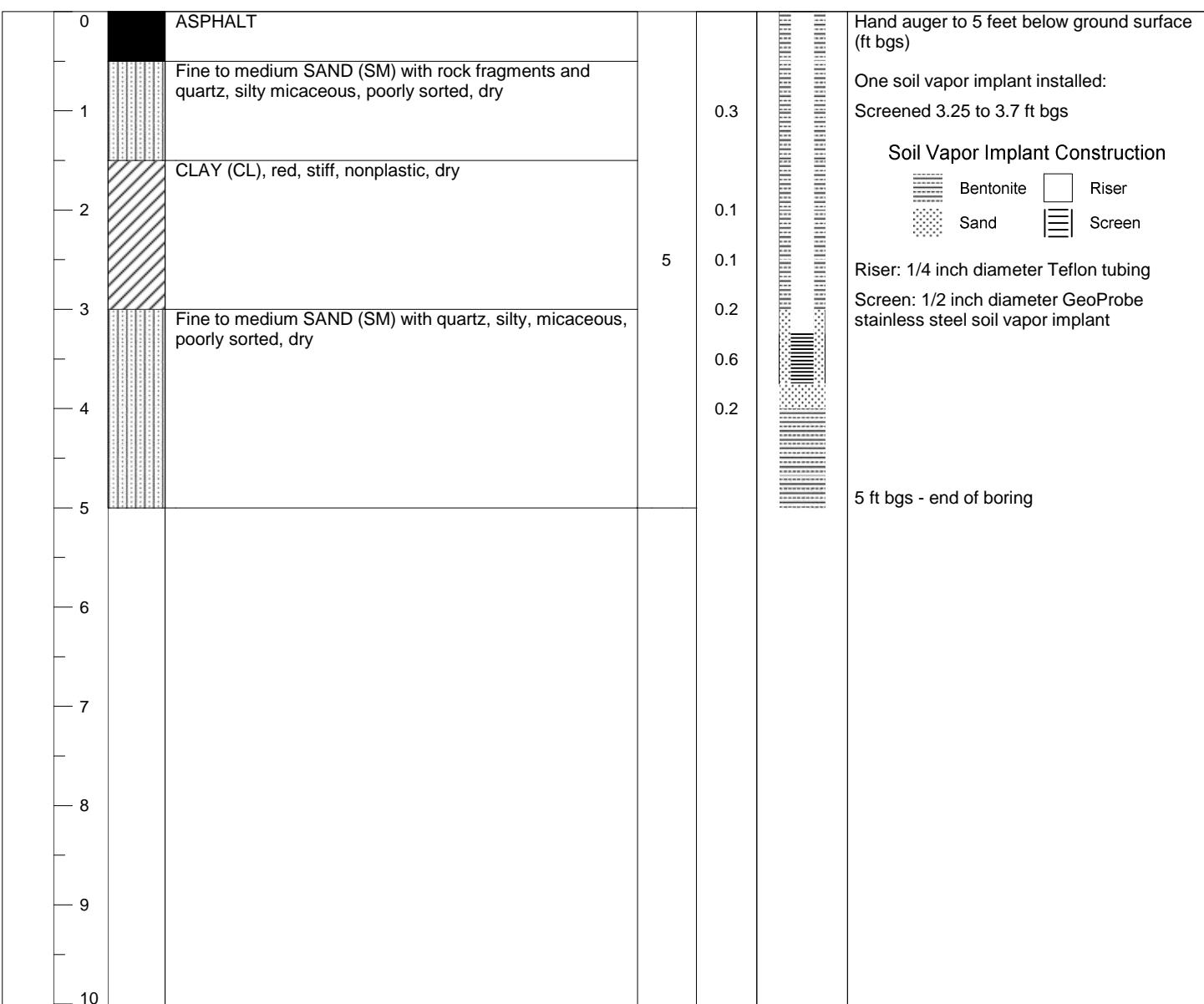
Project Number: C00342

Drilled by: Russ Marlow

Logged by: Tim Davis

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): NA

Depth to water in borehole after drilling (ft bgs): NA

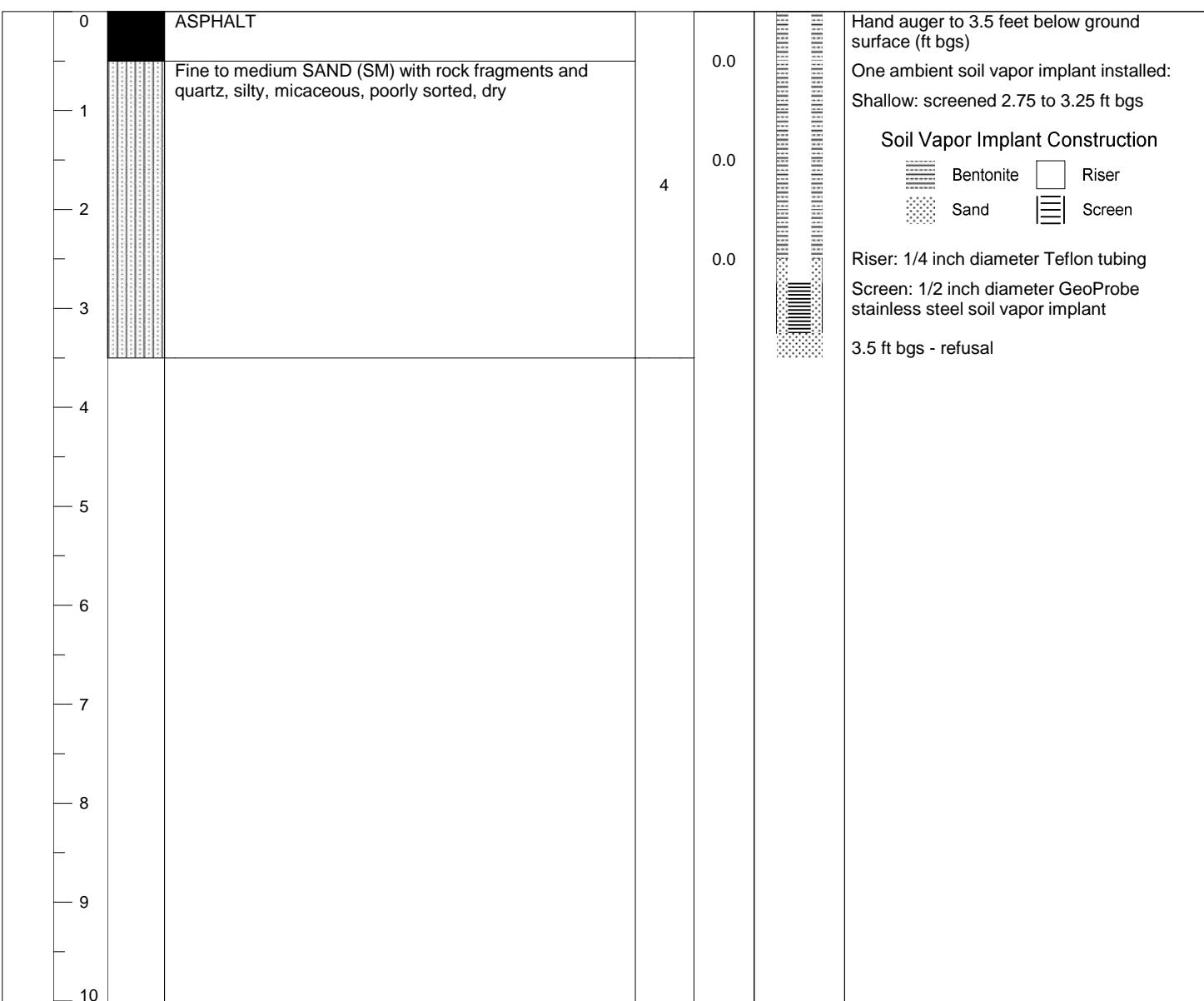
Boring: SG-TSC-02

Page: 1 of 1



Location ID: SG-TSC-03

Project / Site: Ashland Alterman						Sketch Map						
Location / Address: Jonesboro, GA												
Date Started: 10/25/2017	Date Finished: 10/25/2017											
Ground Surface Elevation (NAVD88): 895.72	Top of Casing Elevation (NAVD88): NA											
GA State Plane (NAD83) Easting: 2236893.49	Northing: 1280464.25	Total Depth (ft): 3.5										
Drilling Method: Hand Auger	Borehole Diameter: 3 inch											
Rig Type: NA	Casing Diameter (in) / Type: NA											
Drilling Company: Geo Lab Drilling, Inc.	Sampler Diameter (in) / Type: 3 inch / Hand Auger											
Drilled by: Russ Marlow	Logged by: Tim Davis											
Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes					



Notes: Soil classification based on the Unified Soil Classification System (USCS)	Depth to water in borehole during drilling (ft bgs): <u>NA</u> Depth to water in borehole after drilling (ft bgs): <u>NA</u>	Boring: SG-TSC-03 Page: 1 of 1
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Location ID: SG-TSC-04

Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/25/2017

Date Finished: 10/25/2017

Ground Surface Elevation (NAVD88): 896.23

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236832.94 Northing: 1280523.01 Total Depth (ft): 3

Drilling Method: Hand Auger

Borehole Diameter: 3 inch

Rig Type: NA

Casing Diameter (in) / Type: NA

Sketch Map

Client: Ashland LLC

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 3 inch / Hand Auger

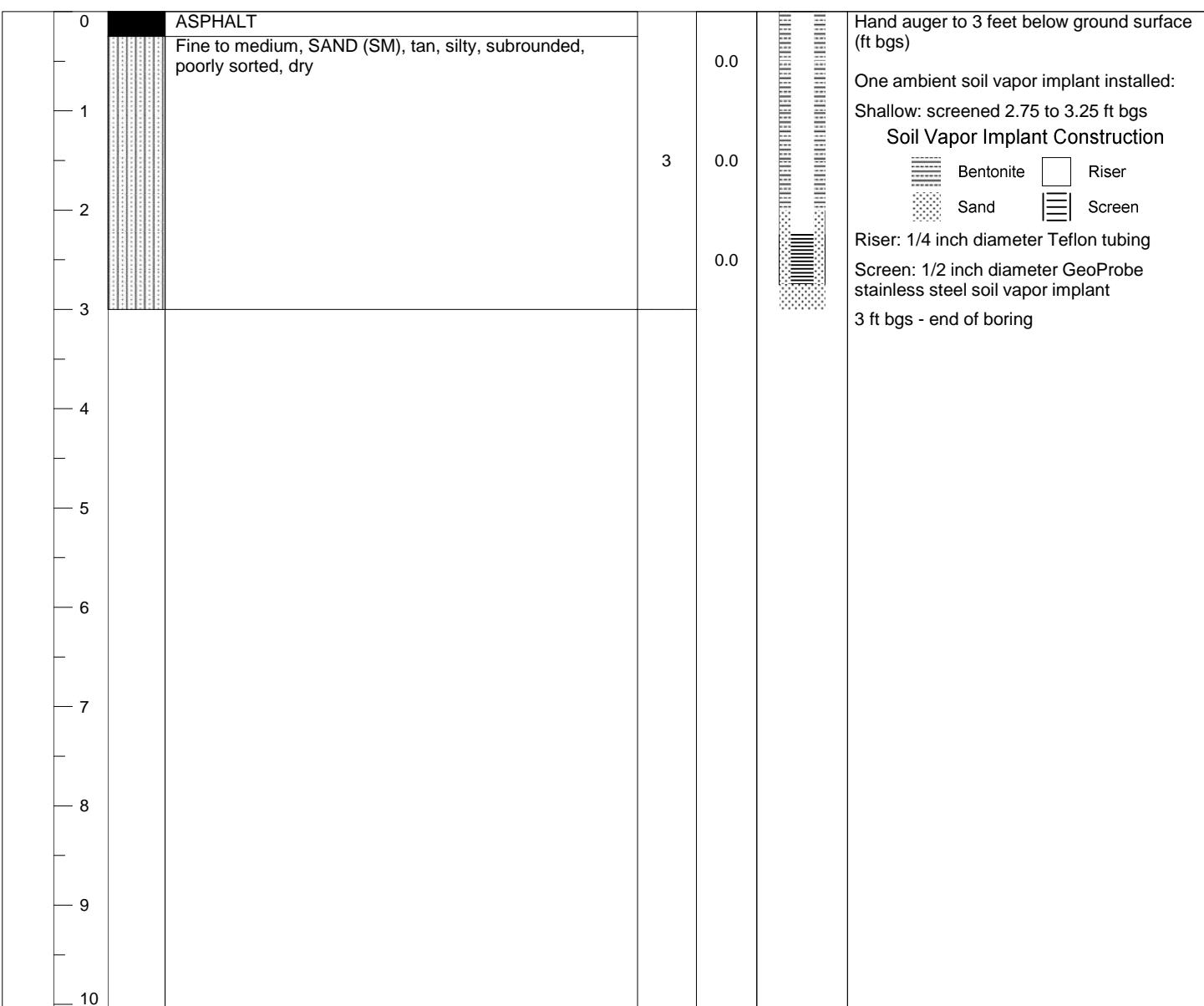
Project Number: C00342

Drilled by: Russ Marlow

Logged by: Tim Davis

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): NA

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-TSC-04

Page: 1 of 1

Project / Site: Ashland Alterman

Location / Address: Jonesboro, GA

Date Started: 10/25/2017

Date Finished: 10/25/2017

Ground Surface Elevation (NAVD88): 894.39

Top of Casing Elevation (NAVD88): NA

GA State Plane (NAD83) Easting: 2236794.20 Northing: 1280419.10 Total Depth (ft): 25

Drilling Method: Direct Push

Borehole Diameter: 2 inch

Rig Type: PowerProbe

Casing Diameter (in) / Type: 2 inch

Drilling Company: Geo Lab Drilling, Inc.

Sampler Diameter (in) / Type: 2 inch / MacroCore

Drilled by: Russ Marlow

Logged by: Tim Davis

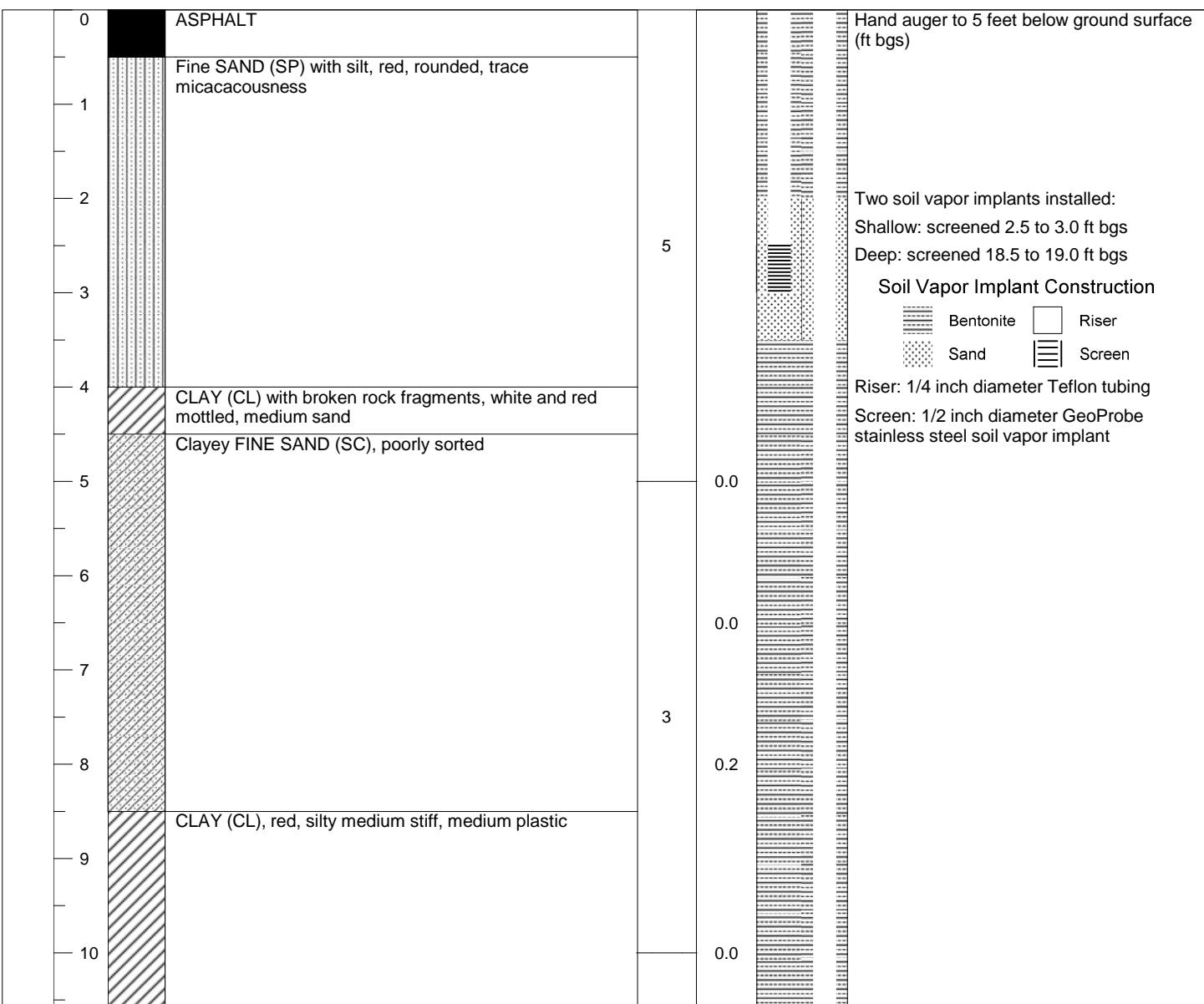
Sketch Map

Client: Ashland LLC

Project Number: C00342

EHS Support PM: M. Stayrook

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
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Notes:

Soil classification based on the Unified Soil Classification System (USCS)

Depth to water in borehole during drilling (ft bgs): 21.5

Depth to water in borehole after drilling (ft bgs): NA

Boring: SG-TSC-05

Page: 1 of 2

Elevation (NAVD88)	Depth (feet)	Lithologic Column	Lithologic Description	Recovery (feet)	PID (ppm) Headspace	Well Diagram	Notes
			CLAY (CL), red, silty medium stiff, medium plastic				
11					0.0		
12					0.0		
13					0.0		
14					0.0		
15				5	0.0		
16					0.0		
17			SAPROLITE, tan, red, white, and light brown banded, sandy, medium to fine, well sorted	5	0.0		
18					0.0		
19			SAPROLITE, tan, red, white, and light brown banded with relic structures, sandy, medium to fine, well sorted, moist				
20			SAPROLITE in a clayey sand matrix with silt, poorly sorted, subangular sand grains, highly micaceous, moist to wet		0.0		
21					0.0		
22					0.0		
23					0.0		
24					0.0		
25							25 ft bgs - end of boring

Notes: Soil classification based on the Unified Soil Classification System (USCS)	Depth to water in borehole during drilling (ft bgs): 21.5 Depth to water in borehole after drilling (ft bgs): NA	Location: SG-TSC-05 Page: 2 of 2
		



Appendix C Field Sampling Forms

SG-AMB-015

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Tuckerboro, GA
 Site Address: TACRA PLANT
 Field ID No: SG-AMB-015
 Sampling Date(s): 12/6/17
 Shipping Date: 12/7/17 Size of Canister: 6L
 Canister Serial No: 4567-3488
 Flow Controller No: 20164-28165

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start		<u>41.0</u>		
Stop				

PRESSURE (inches of Hg)

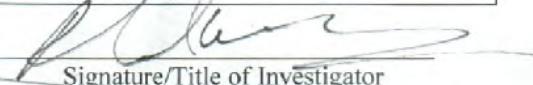
	Ambient	Maximum	Minimum
Start	<u>30.0</u>		
Stop	<u>4.5</u>		

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>30</u>	
Stop	<u>4.5</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>1352</u>	<u>30 min</u>
Stop	<u>1422</u>	



Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

SG-AMB-025

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET**A. GENERAL INFORMATION**

Site Location: Jonesboro, GA
 Site Address: Tava Blvd.
 Field ID No: SG-AMB-025
 Sampling Date(s): 12/6/17
 Shipping Date: 12/7/17
 Size of Canister: 1L
 Canister Serial No: 4547
 Flow Controller No: 28144

B. SAMPLING INFORMATION*TEMPERATURE (Fahrenheit)*

	Interior	Ambient	Maximum	Minimum
Start		38.50F		
Stop				

PRESSURE (inches of Hg)

	Ambient	Maximum	Minimum
Start	30.10		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

	29	
Start	-5.5	
Stop		

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1434	30 min
Stop	1504	

Alvarez

Signature/Title of Investigator

C. LABORATORY INFORMATION*FLOW RATES (ml/min)*

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

*CANISTER PRESSURE**Inches of Hg*

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped:

Date Received:

Individual Canister Certification (provide File #):

Batch Certification (provide Batch ID#):

Signature/Title
GC/MS Analyst for TO-15

SG-AMB-02D

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Jonesboro, GA
Site Address: Tara Blvd
Field ID No: SG-AMB-02D
Sampling Date(s): 12/6/17
Shipping Date: 12/7/17

Size of Canister: 6L
Canister Serial No: 4321
Flow Controller No: 47107

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start		38.5		
Stop				

PRESSURE (inches of Hg)

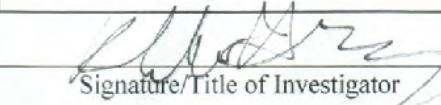
	Ambient	Maximum	Minimum
Start	30.0		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	18.5	
Stop	4.5	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1512	30 min
Stop	1542-1538	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

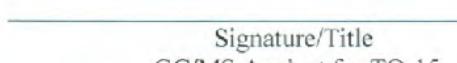
Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped:

Date Received:

Individual Canister Certification (provide File #):

Batch Certification (provide Batch ID#):


Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET**A. GENERAL INFORMATION**

Site Location: Somersboro, GA
 Site Address: 8564 TARA BLVD
 Field ID No: SG-PRSC-01
 Sampling Date(s): 12/6/17
 Shipping Date: 12/7/17

Size of Canister: 6L
 Canister Serial No: 4451
 Flow Controller No: 2888

B. SAMPLING INFORMATION*TEMPERATURE (Fahrenheit)*

	Interior	Ambient	Maximum	Minimum
Start	<u>N/A</u>	<u>42.0/2</u>		
Stop				

PRESSURE (inches of Hg)

	Ambient	Maximum	Minimum
Start	<u>30.22</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>25.5</u>	
Stop	<u>5</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>1218</u>	
Stop	<u>1248</u>	

*Signature/Title of Investigator:***C. LABORATORY INFORMATION***FLOW RATES (ml/min)*

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

*CANISTER PRESSURE**Inches of Hg*

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

*Signature/Title
GC/MS Analyst for TO-15*

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Jonesboro GA
 Site Address: 9524 TAYLOR Blvd
 Field ID No: TG-FKSC-02S Size of Canister: 6L
 Sampling Date(s): 12/6/17 Canister Serial No: 7065
 Shipping Date: 12/7/17 Flow Controller No: 6241

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	N/A	42°F		
Stop				

PRESSURE (inches of Hg)

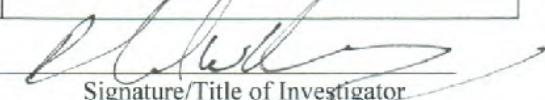
	Ambient	Maximum	Minimum
Start	30.22		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

	27.5	
Start	27.5	
Stop	7	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1128	30 min
Stop	1158	


 Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped:

Date Received:

Individual Canister Certification (provide File #):

Batch Certification (provide Batch ID#):

 Signature/Title
 GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Torresdorf, GA
 Site Address: TARA BLDG
 Field ID No: SG-FRSC-02D Size of Canister: 6L
 Sampling Date(s): 12/7/17 Canister Serial No: 4113
 Shipping Date: 12/7/17 Flow Controller No: 4776

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	<u>NA</u>	<u>62°F</u>		
Stop				

PRESSURE (inches of Hg)

	Ambient	Maximum	Minimum
Start	<u>30.19</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>27.5</u>	
Stop	<u>18.5</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>0816</u>	<u>30 min</u>
Stop	<u>0846</u>	

J. Flanagan
 Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
 GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Jonesboro, GA
 Site Address: Tara Blvd
 Field ID No: SG-TSC-01 Size of Canister: 6L
 Sampling Date(s): 14/6/12 Canister Serial No: 4082
 Shipping Date: 07/6/12 Flow Controller No: 4621

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	<u>NA</u>	<u>70°F</u>		
Stop				

PRESSURE (inches of Hg)

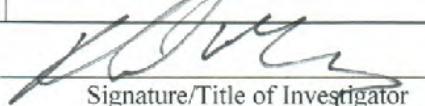
	Ambient	Maximum	Minimum
Start	<u>30.17</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>30.44</u>	
Stop		

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>0929</u>	
Stop	<u>0959</u>	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Jonesboro, GA
 Site Address: 8564 TARA BLVD, Jonesboro, GA
 Field ID No: SG-TSC-02S Size of Canister: 6L
 Sampling Date(s): 12-5-17 Canister Serial No: 4547
 Shipping Date: 12/7/17 Flow Controller No: C74102

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	N/A	69.1°F		
Stop				

PRESSURE (inches of Hg)

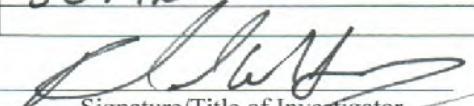
	Ambient	Maximum	Minimum
Start	N/A	30.07	
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	30.00	
Stop	8.0	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1452	30 min
Stop	1522	

Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Somers, GA
 Site Address: 2004 TARA BLVD
 Field ID No: SG-TSC-035
 Sampling Date(s): 12/6/17
 Shipping Date: 12/6/17 Size of Canister: 6L
 Canister Serial No: 1703
 Flow Controller No: 4L81

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	N/A	40.8 F		
Stop				

PRESSURE (inches of Hg)

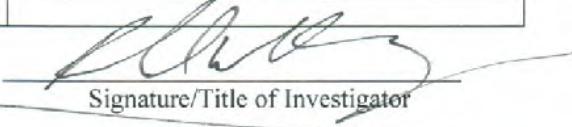
	Ambient	Maximum	Minimum
Start	30.17		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	25	
Stop	3	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	0836	
Stop	0906	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Jonesboro GA
 Site Address: 8564 TARA BLVD, Jonesboro GA
 Field ID No: SG-TSC-04S Size of Canister: 6L
 Sampling Date(s): 12-5-17 Canister Serial No: C9264
 Shipping Date: 12/7/17 Flow Controller No: CF C80155

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	N/A	68°F		
Stop		same		

PRESSURE (inches of Hg)

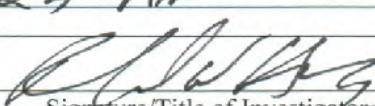
	Ambient	Maximum	Minimum
Start	N/A	30.11	
Stop		same	

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	29.5	
Stop	1.0	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1444	27 min
Stop	1511	



Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

 Signature/Title
 GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Tucker, GA
 Site Address: 8564 TUCKER BLVD
 Field ID No: SG-TSC-055
 Sampling Date(s): 12/6/17
 Shipping Date: 12/7/17

Size of Canister: 6L
 Canister Serial No: A11136
 Flow Controller No: 4617

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	<u>NA</u>	<u>41°F</u>		
Stop				

PRESSURE (inches of Hg)

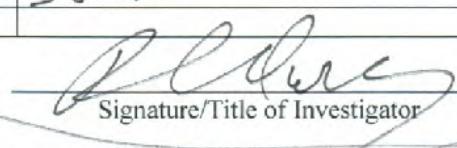
	Ambient	Maximum	Minimum
Start	<u>30.22</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

	Start	Stop
	<u>28</u>	<u>29.52 psu</u>
	<u>16</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>1023</u>	<u>30 min</u>
Stop	<u>1053</u>	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Tucker 64
 Site Address: 8564 AREA Blvd
 Field ID No: SG-Tc-05S-01 Size of Canister: 6L
 Sampling Date(s): 12-6-17 Canister Serial No: 1475
 Shipping Date: 12/7/17 Flow Controller No: 4617

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	<u>N/A</u>	<u>47°F</u>		
Stop				

PRESSURE (inches of Hg)

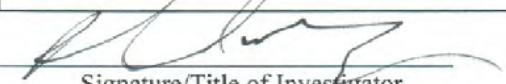
	Ambient	Maximum	Minimum
Start	<u>30.22</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>28</u>	
Stop	<u>10</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>1023</u>	<u>16 min</u>
Stop	<u>1053</u>	

Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Tenesboro, GA
 Site Address: TARA BLVD
 Field ID No: SG-TSC-05D Size of Canister: 6L
 Sampling Date(s): 12/7/17 Canister Serial No: 8049
 Shipping Date: 12/7/17 Flow Controller No: 4607

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	<u>NR</u>	<u>42°F</u>		
Stop				

PRESSURE (inches of Hg)

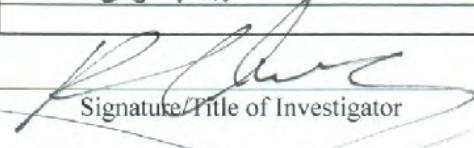
	Ambient	Maximum	Minimum
Start	<u>30.19</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>30</u>	
Stop	<u>6.5</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>0919</u>	<u>30 min</u>
Stop	<u>0949</u>	

Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Ashland Alterman
 Site Address: Flint River Shopping Center
 Field ID No: SG-FRSC-020-C Size of Canister: 6 L
 Sampling Date(s): 01/31/18 Canister Serial No: 5467
 Shipping Date: 02/01/18 Flow Controller No: 4P31

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	-	<u>38°F</u>		
Stop	-			

PRESSURE (inches of Hg)

	Ambient	Maximum	Minimum
Start	<u>30.4" Hg</u>		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	<u>30" Hg</u>	
Stop	<u>5.2 Hg</u>	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	<u>1150</u>	
Stop	<u>1220</u>	

Kr-S.
Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

Inches of Hg

Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

[Signature]
Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Ashland Altermann
 Site Address: Flinn River Shopping Center
 Field ID No: SG-FRSC-025-C Size of Canister: 6L
 Sampling Date(s): 01/31/18 Canister Serial No: 3219
 Shipping Date: 02/01/18 Flow Controller No: 4977

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	—	36° F	44° F	
Stop	—	46° F		

PRESSURE (inches of Hg)

	Ambient	Maximum	Minimum
Start	30.4" Hg		
Stop			

CANISTER PRESSURE (inches of Hg) FROM GAUGE

	30" Hg	
Start		
Stop	5.5 Hg	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1112	
Stop	1143	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

	Inches of Hg	
Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____

Signature/Title
GC/MS Analyst for TO-15

METHOD TO-15 CANISTER SAMPLING FIELD TEST DATA SHEET

A. GENERAL INFORMATION

Site Location: Ashland Alterman
 Site Address: Tara Shopping Center
 Field ID No: SG-TSC-m25-2
 Sampling Date(s): 013118
 Shipping Date: 020118
 Size of Canister: 6L
 Canister Serial No: 3277
 Flow Controller No: 4074

B. SAMPLING INFORMATION

TEMPERATURE (Fahrenheit)

	Interior	Ambient	Maximum	Minimum
Start	-	48°F		
Stop	-			

PRESSURE (inches of Hg)

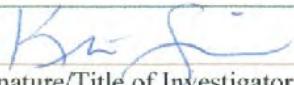
	Ambient	Maximum	Minimum
Start	30.4 Hg		
Stop	5.0 Hg		

CANISTER PRESSURE (inches of Hg) FROM GAUGE

Start	28 Hg	
Stop	5.0 Hg	

SAMPLING TIMES (24 hour clock)

	Local Times	Elapsed Time Meter Reading
Start	1220	
Stop	1250	


Signature/Title of Investigator

C. LABORATORY INFORMATION

FLOW RATES (ml/min)

	Flow Controller Readout	
Shipping out from Lab		required (from lab record log) after return
Receiving in Lab		(if applicable)

CANISTER PRESSURE

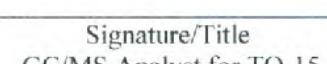
	Inches of Hg	
Initial Pressure (to field)		required (from lab record log) after return
Final Pressure (from field)		required (from lab record log) after return

Data Shipped: _____

Date Received: _____

Individual Canister Certification (provide File #): _____

Batch Certification (provide Batch ID#): _____


Signature/Title
GC/MS Analyst for TO-15

AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: Ashland Attermann	Sample Location: Casi Boot Camp					
SAMPLE COLLECTION						
Sample ID: TS-SS-A	Sample Time: 1322					
Sample Flow Rate (mL/min):	Sample Analyses: VOCs					
Canister ID: (SN): 2905	Canister Volume: 4L					
Start Time: 1322	End Time: 1352					
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): 6					
Duplicate Collected? Yes	<input checked="" type="radio"/>	If yes, identify below				
Duplicate ID: N/A	Duplicate Analyses: N/A					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/12/18	1322	39°C	68	29.9	NW 18mph	NW
03/12/18	1352	39°C	68	29.9	18	NW

*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS						
Regulator = 4609						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: <i>Ashland Alterman</i>	Sample Location: <i>Casi Bootcamp</i>					
SAMPLE COLLECTION						
Sample ID: <i>TS-55-B</i>	Sample Time: <i>1426</i>					
Sample Flow Rate (mL/min): <i>200</i>	Sample Analyses: <i>VOCs</i>					
Canister ID: (SN): <i>4383</i>	Canister Volume: <i>6L</i>					
Start Time: <i>1426</i>	End Time: <i>1456</i>					
Initial Canister Vacuum ("Hg): <i>-30</i>	Final Canister Vacuum ("Hg): <i>-7</i>					
Duplicate Collected? Yes	<input checked="" type="radio"/>	If yes, identify below				
Duplicate ID: <i>N/A</i>	Duplicate Analyses: <i>N/A</i>					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/12/18	1426	45	67	29.9	21	NW
03/12/18	1456	44	67	29.9	21	NW

*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS						
<i>Regulator # 5592</i>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: <u>Ashland Afterman</u>	Sample Location: <u>Paulina's Hair Salon</u>					
SAMPLE COLLECTION						
Sample ID: <u>TS-SS-C</u>	Sample Time: <u>1526</u>					
Sample Flow Rate (mL/min): <u>200</u>	Sample Analyses: <u>VOCS</u>					
Canister ID: (SN): <u>3166</u>	Canister Volume: <u>6L</u>					
Start Time: <u>1524</u>	End Time: <u>1556</u>					
Initial Canister Vacuum ("Hg): <u>-30</u>	Final Canister Vacuum ("Hg): <u>4, 7 (DUP)</u>					
Duplicate Collected? <input checked="" type="checkbox"/> Yes	No If yes, identify below					
Duplicate ID: <u>TS-SS-CD</u>	Duplicate Analyses: <u>VOCS</u>					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
<u>03/12/18</u>	<u>1524</u>	<u>50</u>	<u>55</u>	<u>29.9</u>	<u>21</u>	<u>NW</u>
<u>03/12/18</u>	<u>1554</u>	<u>50</u>	<u>55</u>	<u>29.9</u>	<u>21</u>	<u>NW</u>
*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.						
COMMENTS						
<u>Canister 3166 = Regulator 6511</u> <u>Canister 3322 (DUP) = Regulator 6369</u>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AIR VAPOR SAMPLING LOG

PROJECT INFORMATION

Project: Ashland Alterman Sample Location: Paulina's Hair Saloon

SAMPLE COLLECTION

Sample ID: TS-SS-D	Sample Time: 1636
Sample Flow Rate (mL/min): 200	Sample Analyses: VOCs
Canister ID: (SN): 4782	Canister Volume: 6L
Start Time: 1636	End Time: 1706
Initial Canister Vacuum ("Hg): -31	Final Canister Vacuum ("Hg): 12-27-24
Duplicate Collected? Yes <input checked="" type="checkbox"/>	If yes, identify below
Duplicate ID: N/A	Duplicate Analyses: N/A

AMBIENT CONDITIONS

Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/12/18	1636	50	55-37	29.9	21	NW
03/12/18	1706	53	37	29.9	20	NW

*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS

Regulator: 5881

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: Ashland Afterman		Sample Location: Metro PCS				
SAMPLE COLLECTION						
Sample ID: TS-55-E	Sample Time: 1800					
Sample Flow Rate (mL/min): 200	Sample Analyses: VOCs					
Canister ID: (SN): 4324	Canister Volume: 1L					
Start Time: 1800	End Time: 1830					
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): -8					
Duplicate Collected?	Yes	<input checked="" type="radio"/> No	If yes, identify below			
Duplicate ID:	N/A					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
1800 03/12/18	1800	53	35	29.9	20	NW
1830 03/12/18	1830	52	37	30	18	NW
*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.						
COMMENTS						
Regulator = 6291						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

INDOOR AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: Afterman	Sample Location: <u>I5 = Casi's Bootcamp</u>					
SAMPLE COLLECTION						
Sample ID: TS-IAS-A	Sample Time: 0937					
Sample Flow Rate (mL/min): 12.5	Sample Analyses: TO-15 VOCs					
Canister ID: (SN): 5901	Canister Volume: 6L					
Start Time: 0937	End Time: 1737					
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): -5					
Duplicate Collected? Yes	<input checked="" type="checkbox"/>	If yes, identify below				
Duplicate ID: N/A	Duplicate Analyses: N/A					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/20/18	0937	58	83	29.6	7 mph	W SW
03/20/18	1737	65	52	29.4	20	W
*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.						
COMMENTS						
<p>No activities at time sample collected. Casi cleaned mirrors with windex. Sample canister placed on ~4' high shelf on south side of main area. Regulator = 3447</p>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

INDOOR AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: <u>Atteeman</u>	Sample Location: <u>Pauline's Hair Salon</u>					
SAMPLE COLLECTION						
Sample ID: <u>TS-IAS-B</u>	Sample Time: <u>0930</u>					
Sample Flow Rate (mL/min):	Sample Analyses: <u>TO-15 VOCs</u>					
Canister ID: (SN): <u>2848</u>	Canister Volume: <u>6L</u>					
Start Time: <u>0930</u>	End Time: <u>1730</u>					
Initial Canister Vacuum ("Hg): <u>-30</u>	Final Canister Vacuum ("Hg): <u>-9</u>					
Duplicate Collected? Yes	<input checked="" type="radio"/>	If yes, identify below				
Duplicate ID: <u>N/A</u>	Duplicate Analyses: <u>N/A</u>					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/20/18	0930	60	85	29.6	1	WSW
03/20/18	1730	65	52	29.4	20	W
*Use a separate indoor air vapor sampling log to record canister information for each additional canister and any duplicates.						
COMMENTS						
<p>Smell of hair products in salon. Sample collected in area where employees work most frequently - north central styling area. Canister placed on top of fridge ~5' above ground surface.</p>						

Notes:

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

Regulator: S176

Page 1 of 1

Indoor

AMBIENT AIR VAPOR SAMPLING LOG

PROJECT INFORMATION							
Project: <i>Arberman</i>	Sample Location: <i>Metro PCS</i>						
SAMPLE COLLECTION							
Sample ID: <i>TS-IAS-C</i>	Sample Time: <i>1005</i>						
Sample Flow Rate (mL/min): <i>12.5</i>	Sample Analyses: <i>TO-15</i>						
Canister ID: (SN): <i>3350</i>	Canister Volume: <i>6L</i>						
Start Time: <i>1005</i>	End Time: <i>1805</i>						
Initial Canister Vacuum ("Hg): <i>-30</i>	Final Canister Vacuum ("Hg): <i>-4</i>						
Duplicate Collected?	Yes	<input checked="" type="radio"/>	If yes, identify below				
Duplicate ID: <i>N/A</i>	Duplicate Analyses: <i>N/A</i>						
AMBIENT CONDITIONS							
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction	
<i>03/20/18</i>	<i>1005</i>	<i>63</i>	<i>85</i>	<i>29.4</i>	<i>5</i>	<i>W</i>	
<i>03/20/18</i>	<i>1805</i>	<i>65</i>	<i>52</i>	<i>29.4</i>	<i>20</i>	<i>W</i>	
*Use a separate ambient air vapor sampling log to record canister information for each additional canister and any duplicates.							
COMMENTS							
<i>Canister placed in north-west corner of showroom. Employee cleaning with Clorox wipes immediately prior to sample collection. Regulator = 4065</i>							

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AMBIENT AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: Alterman	Sample Location: Metro PCS					
SAMPLE COLLECTION						
Sample ID: TS-IAS-D	Sample Time: 1010					
Sample Flow Rate (mL/min): 12.5	Sample Analyses: TO-15 VOCs					
Canister ID: (SN): 2522	Canister Volume: 6L					
Start Time: 1010	End Time: 1810					
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): -10					
Duplicate Collected? Yes	No If yes, identify below See dup sheet					
Duplicate ID: TS-IAS-D-DUP	Duplicate Analyses: TO-15 VOCs					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/20/18	1010	63	85	29.6	5	W
03/20/18	1810	65	52	29.6	20	W

*Use a separate ambient air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS						
<p>Sample collected in break area just east (back) of showroom. Duplicate sample collected with this one. Chlorox wipes used in showroom just before running samples. Regulator = 3100 (395)</p>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AMBIENT AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: Afterman	Sample Location: Metro PCS					
SAMPLE COLLECTION						
Sample ID: TS-IAS-D-Dup	Sample Time: 1010					
Sample Flow Rate (mL/min): 2.5	Sample Analyses: TO-15- VOCs					
Canister ID: (SN): 4357	Canister Volume: 6L					
Start Time: 1010	End Time: 1810					
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): -9					
Duplicate Collected?	Yes	No	If yes, identify below <i>This is a dup.</i>			
Duplicate ID:		Duplicate Analyses:				
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/20/18	1010	63	85	29.46	5	W
03/20/18		65	48 52	29.46	20	W
*Use a separate ambient air vapor sampling log to record canister information for each additional canister and any duplicates.						
COMMENTS						
<i>See notes for sample TS-IAS-D. Regulator = 3108</i>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AMBIENT AIR VAPOR SAMPLING LOG

PROJECT INFORMATION						
Project: <u>Altman</u>	Sample Location: <u>upwind at Altman light pole</u>					
SAMPLE COLLECTION						
Sample ID: <u>TS-OAS-U</u>	Sample Time: <u>0915</u>					
Sample Flow Rate (mL/min): <u>125</u>	Sample Analyses: <u>TO-15 VOCs</u>					
Canister ID: (SN): <u>3654</u>	Canister Volume: <u>6L</u>					
Start Time: <u>0915</u>	End Time: <u>1715</u>					
Initial Canister Vacuum ("Hg): <u>-30</u>	Final Canister Vacuum ("Hg): <u>-12</u>					
Duplicate Collected? Yes	No	If yes, identify below				
Duplicate ID: <u>N/A</u>	Duplicate Analyses: <u>N/A</u>					
AMBIENT CONDITIONS						
Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
<u>03/20/18</u>	<u>0915</u>	<u>@-63-57</u>	<u>84</u>	<u>29.6</u>	<u>8</u>	<u>W</u>
<u>03/20/18</u>	<u>1715</u>	<u>65</u>	<u>52</u>	<u>29.6</u>	<u>20</u>	<u>W</u>

*Use a separate ambient air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS						
<u>Canister placed just behind building, at road, by a light pole along Fayetteville Rd. Upwind location Regulator = 2939</u>						

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury

AMBIENT AIR VAPOR SAMPLING LOG

PROJECT INFORMATION

Project: Alterman	Sample Location: Downwind location
-------------------	------------------------------------

SAMPLE COLLECTION

Sample ID: TS-DAS-D	Sample Time: 0920
Sample Flow Rate (mL/min): 125	Sample Analyses: TO-15 VOCs
Canister ID: (SN): 5095	Canister Volume: 6L
Start Time: 0920	End Time: 1820-1720
Initial Canister Vacuum ("Hg): -30	Final Canister Vacuum ("Hg): -10
Duplicate Collected? Yes	No If yes, identify below
Duplicate ID: N/A	Duplicate Analyses: N/A

AMBIENT CONDITIONS

Date	Time	Temperature (°C)	Humidity (%)	Barometer (in)	Wind Speed (MPH)	Wind Direction
03/20/18	0920	57	84	29.4	8	W
03/20/18	1820	65	51	29.6	19	W

*Use a separate ambient air vapor sampling log to record canister information for each additional canister and any duplicates.

COMMENTS

Canister placed at SunTrust ATM near Tara Blvd.
West-central area of shopping center - downwind.
Regulator - 2995

Notes:

Page 1 of 1

"H₂O - Inches of water

mL/min - milliliters per minute

SN - Serial number

"Hg - Inches of mercury



Appendix D Laboratory Analytical Data

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-41333-1

Client Project/Site: Ashland Alterman (Jonesboro)

Revision: 2

For:

EHS Support, LLC

4694 Cemetery Rd, PMB 104

Hilliard, Ohio 43026

Attn: Ms. Michelle Stayrook



Authorized for release by:

12/22/2017 2:14:51 PM

Michele Kersey, Project Manager II

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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.

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Definitions/Glossary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Job ID: 200-41333-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 200-41333-1

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 12/08/2017; the samples arrived in good condition.

NOTE: Report revised to include dual units for air.

VOLATILE ORGANIC COMPOUNDS

Samples SG-TSC-01S (200-41333-1), SG-TSC-02S (200-41333-2), SG-TSC-03S (200-41333-3), SG-TSC-04S (200-41333-4), SG-TSC-05S (200-41333-5), SG-TSC-05D (200-41333-6), SG-TSC-05S-DUP (200-41333-7), SG-AMB-01S (200-41333-8), SG-AMB-02S (200-41333-9), SG-AMB-02D (200-41333-10), SG-FRSC-01S (200-41333-11), SG-FRSC-02S (200-41333-12) and SG-FRSC-02D (200-41333-13) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 12/12/2017 and 12/13/2017.

The continuing calibration verification (CCV) associated with batch 200-124342 recovered above the upper control limit for Bromoform. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: SG-TSC-01S (200-41333-1), SG-TSC-02S (200-41333-2), SG-TSC-03S (200-41333-3), SG-TSC-04S (200-41333-4), SG-TSC-05S (200-41333-5), SG-TSC-05D (200-41333-6), SG-TSC-05S-DUP (200-41333-7), SG-AMB-01S (200-41333-8), SG-AMB-02S (200-41333-9), SG-AMB-02D (200-41333-10), SG-FRSC-01S (200-41333-11), SG-FRSC-02S (200-41333-12) and SG-FRSC-02D (200-41333-13).

Samples SG-TSC-02S (200-41333-2)[19895.1X], SG-FRSC-01S (200-41333-11)[31.4X], SG-FRSC-02S (200-41333-12)[104X] and SG-FRSC-02D (200-41333-13)[15.2X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-01S

Lab Sample ID: 200-41333-1

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ppb v/v	ug/m3		Qualifier	ppb v/v			
Benzene	0.78	2.5	0.20			1	TO-15	Total/NA
Ethylbenzene	0.24	1.1	0.20			1	TO-15	Total/NA
Tetrachloroethene	2.5	17	0.20			1	TO-15	Total/NA
Toluene	1.2	4.6	0.20			1	TO-15	Total/NA
Trichloroethene	0.25	1.3	0.20			1	TO-15	Total/NA
Xylenes, Total	0.84	3.6	0.70			1	TO-15	Total/NA

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ug/m3	ug/m3		Qualifier	ug/m3			
Benzene	2.5	2.5	0.64			1	TO-15	Total/NA
Ethylbenzene	1.1	1.1	0.87			1	TO-15	Total/NA
Tetrachloroethene	17	17	1.4			1	TO-15	Total/NA
Toluene	4.6	4.6	0.75			1	TO-15	Total/NA
Trichloroethene	1.3	1.3	1.1			1	TO-15	Total/NA
Xylenes, Total	3.6	3.6	3.0			1	TO-15	Total/NA

Client Sample ID: SG-TSC-02S

Lab Sample ID: 200-41333-2

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ppb v/v	ug/m3		Qualifier	ppb v/v			
Tetrachloroethene	250000	1700000	4000		19895.1	TO-15		Total/NA
Trichloroethene	20000	110000	4000		19895.1	TO-15		Total/NA

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ug/m3	ug/m3		Qualifier	ug/m3			
Tetrachloroethene	1700000	1700000	27000		19895.1	TO-15		Total/NA
Trichloroethene	110000	110000	21000		19895.1	TO-15		Total/NA

Client Sample ID: SG-TSC-03S

Lab Sample ID: 200-41333-3

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ppb v/v	ug/m3		Qualifier	ppb v/v			
2-Butanone (MEK)	1.6	4.8	0.50			1	TO-15	Total/NA
Chloromethane	0.54	1.1	0.50			1	TO-15	Total/NA
Tetrachloroethene	7.0	48	0.20			1	TO-15	Total/NA
Toluene	0.29	1.1	0.20			1	TO-15	Total/NA
Trichloroethene	0.35	1.9	0.20			1	TO-15	Total/NA

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ug/m3	ug/m3		Qualifier	ug/m3			
2-Butanone (MEK)	4.8	4.8	1.5			1	TO-15	Total/NA
Chloromethane	1.1	1.1	1.0			1	TO-15	Total/NA
Tetrachloroethene	48	48	1.4			1	TO-15	Total/NA
Toluene	1.1	1.1	0.75			1	TO-15	Total/NA
Trichloroethene	1.9	1.9	1.1			1	TO-15	Total/NA

Client Sample ID: SG-TSC-04S

Lab Sample ID: 200-41333-4

Analyte	Result	Result	RL	MDL		Dil Fac	Method	Prep Type
	ppb v/v	ug/m3		Qualifier	ppb v/v			
Acetone	14	34	5.0			1	TO-15	Total/NA
2-Butanone (MEK)	2.7	8.0	0.50			1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-04S (Continued)

Lab Sample ID: 200-41333-4

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL		Prep Type
				ppb v/v	Dil Fac	Method	
Carbon disulfide	8.5	27		0.50	1	TO-15	Total/NA
Chloroform	0.22	1.1		0.20	1	TO-15	Total/NA
Chloromethane	0.54	1.1		0.50	1	TO-15	Total/NA
cis-1,2-Dichloroethene	0.88	3.5		0.20	1	TO-15	Total/NA
Ethylbenzene	6.4	28		0.20	1	TO-15	Total/NA
Toluene	8.1	31		0.20	1	TO-15	Total/NA
Vinyl chloride	0.43	1.1		0.20	1	TO-15	Total/NA
Xylenes, Total	17	73		0.70	1	TO-15	Total/NA

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL		Prep Type
				ug/m3	Dil Fac	Method	
Acetone	34	34		12	1	TO-15	Total/NA
2-Butanone (MEK)	8.0	8.0		1.5	1	TO-15	Total/NA
Carbon disulfide	27	27		1.6	1	TO-15	Total/NA
Chloroform	1.1	1.1		0.98	1	TO-15	Total/NA
Chloromethane	1.1	1.1		1.0	1	TO-15	Total/NA
cis-1,2-Dichloroethene	3.5	3.5		0.79	1	TO-15	Total/NA
Ethylbenzene	28	28		0.87	1	TO-15	Total/NA
Toluene	31	31		0.75	1	TO-15	Total/NA
Vinyl chloride	1.1	1.1		0.51	1	TO-15	Total/NA
Xylenes, Total	73	73		3.0	1	TO-15	Total/NA

Client Sample ID: SG-TSC-05S

Lab Sample ID: 200-41333-5

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL		Prep Type
				ppb v/v	Dil Fac	Method	
Acetone	10	25		5.0	1	TO-15	Total/NA
2-Butanone (MEK)	1.4	4.1		0.50	1	TO-15	Total/NA
Chloromethane	0.54	1.1		0.50	1	TO-15	Total/NA
Tetrachloroethene	25	170		0.20	1	TO-15	Total/NA
Toluene	0.39	1.5		0.20	1	TO-15	Total/NA
Trichloroethene	0.97	5.2		0.20	1	TO-15	Total/NA

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL		Prep Type
				ug/m3	Dil Fac	Method	
Acetone	25	25		12	1	TO-15	Total/NA
2-Butanone (MEK)	4.1	4.1		1.5	1	TO-15	Total/NA
Chloromethane	1.1	1.1		1.0	1	TO-15	Total/NA
Tetrachloroethene	170	170		1.4	1	TO-15	Total/NA
Toluene	1.5	1.5		0.75	1	TO-15	Total/NA
Trichloroethene	5.2	5.2		1.1	1	TO-15	Total/NA

Client Sample ID: SG-TSC-05D

Lab Sample ID: 200-41333-6

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL		Prep Type
				ppb v/v	Dil Fac	Method	
Benzene	0.27	0.87		0.20	1	TO-15	Total/NA
Chloromethane	0.53	1.1		0.50	1	TO-15	Total/NA
Tetrachloroethene	1.4	9.4		0.20	1	TO-15	Total/NA
Toluene	1.0	3.8		0.20	1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05D (Continued)

Lab Sample ID: 200-41333-6

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Benzene	0.87	0.87		0.64		1	TO-15	Total/NA
Chloromethane	1.1	1.1		1.0		1	TO-15	Total/NA
Tetrachloroethene	9.4	9.4		1.4		1	TO-15	Total/NA
Toluene	3.8	3.8		0.75		1	TO-15	Total/NA

Client Sample ID: SG-TSC-05S-DUP

Lab Sample ID: 200-41333-7

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Benzene	0.25	0.79		0.20		1	TO-15	Total/NA
2-Butanone (MEK)	0.52	1.5		0.50		1	TO-15	Total/NA
Chloromethane	0.56	1.2		0.50		1	TO-15	Total/NA
Tetrachloroethene	17	120		0.20		1	TO-15	Total/NA
Toluene	10	38		0.20		1	TO-15	Total/NA
Trichloroethene	0.53	2.8		0.20		1	TO-15	Total/NA

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Benzene	0.79	0.79		0.64		1	TO-15	Total/NA
2-Butanone (MEK)	1.5	1.5		1.5		1	TO-15	Total/NA
Chloromethane	1.2	1.2		1.0		1	TO-15	Total/NA
Tetrachloroethene	120	120		1.4		1	TO-15	Total/NA
Toluene	38	38		0.75		1	TO-15	Total/NA
Trichloroethene	2.8	2.8		1.1		1	TO-15	Total/NA

Client Sample ID: SG-AMB-01S

Lab Sample ID: 200-41333-8

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Benzene	0.41	1.3		0.20		1	TO-15	Total/NA
Carbon disulfide	0.69	2.2		0.50		1	TO-15	Total/NA
Chloromethane	0.51	1.0		0.50		1	TO-15	Total/NA
Toluene	0.79	3.0		0.20		1	TO-15	Total/NA

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Benzene	1.3	1.3		0.64		1	TO-15	Total/NA
Carbon disulfide	2.2	2.2		1.6		1	TO-15	Total/NA
Chloromethane	1.0	1.0		1.0		1	TO-15	Total/NA
Toluene	3.0	3.0		0.75		1	TO-15	Total/NA

Client Sample ID: SG-AMB-02S

Lab Sample ID: 200-41333-9

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Benzene	0.44	1.4		0.20		1	TO-15	Total/NA
Chloromethane	0.50	1.0		0.50		1	TO-15	Total/NA
Tetrachloroethene	24	160		0.20		1	TO-15	Total/NA
Toluene	0.88	3.3		0.20		1	TO-15	Total/NA
1,1,2-Trichloroethane	0.76	4.1		0.20		1	TO-15	Total/NA
Trichloroethene	0.64	3.4		0.20		1	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-02S (Continued)

Lab Sample ID: 200-41333-9

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Benzene	1.4	1.4		0.64		1	TO-15	Total/NA
Chloromethane	1.0	1.0		1.0		1	TO-15	Total/NA
Tetrachloroethene	160	160		1.4		1	TO-15	Total/NA
Toluene	3.3	3.3		0.75		1	TO-15	Total/NA
1,1,2-Trichloroethane	4.1	4.1		1.1		1	TO-15	Total/NA
Trichloroethene	3.4	3.4		1.1		1	TO-15	Total/NA

Client Sample ID: SG-AMB-02D

Lab Sample ID: 200-41333-10

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Acetone	12	28		5.0		1	TO-15	Total/NA
Benzene	0.26	0.84		0.20		1	TO-15	Total/NA
2-Butanone (MEK)	3.7	11		0.50		1	TO-15	Total/NA
Chloromethane	0.53	1.1		0.50		1	TO-15	Total/NA
Ethylbenzene	0.41	1.8		0.20		1	TO-15	Total/NA
Methylene Chloride	0.52	1.8		0.50		1	TO-15	Total/NA
Styrene	0.26	1.1		0.20		1	TO-15	Total/NA
Tetrachloroethene	1.2	8.0		0.20		1	TO-15	Total/NA
Toluene	7.0	26		0.20		1	TO-15	Total/NA
Xylenes, Total	1.8	7.7		0.70		1	TO-15	Total/NA
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Acetone	28	28		12		1	TO-15	Total/NA
Benzene	0.84	0.84		0.64		1	TO-15	Total/NA
2-Butanone (MEK)	11	11		1.5		1	TO-15	Total/NA
Chloromethane	1.1	1.1		1.0		1	TO-15	Total/NA
Ethylbenzene	1.8	1.8		0.87		1	TO-15	Total/NA
Methylene Chloride	1.8	1.8		1.7		1	TO-15	Total/NA
Styrene	1.1	1.1		0.85		1	TO-15	Total/NA
Tetrachloroethene	8.0	8.0		1.4		1	TO-15	Total/NA
Toluene	26	26		0.75		1	TO-15	Total/NA
Xylenes, Total	7.7	7.7		3.0		1	TO-15	Total/NA

Client Sample ID: SG-FRSC-01S

Lab Sample ID: 200-41333-11

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Tetrachloroethene	430	2900		6.3		31.4	TO-15	Total/NA
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Tetrachloroethene	2900	2900		43		31.4	TO-15	Total/NA

Client Sample ID: SG-FRSC-02S

Lab Sample ID: 200-41333-12

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
Tetrachloroethene	3000	20000		21		104	TO-15	Total/NA
Trichloroethene	100	540		21		104	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-02S (Continued)

Lab Sample ID: 200-41333-12

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
Tetrachloroethene	20000	20000		140		104	TO-15	Total/NA
Trichloroethene	540	540		110		104	TO-15	Total/NA

Client Sample ID: SG-FRSC-02D

Lab Sample ID: 200-41333-13

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Dil Fac	Method	Prep Type
cis-1,2-Dichloroethene	3.1	12		3.0		15.2	TO-15	Total/NA
Tetrachloroethene	180	1200		3.0		15.2	TO-15	Total/NA
Trichloroethene	14	77		3.0		15.2	TO-15	Total/NA
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Dil Fac	Method	Prep Type
cis-1,2-Dichloroethene	12	12		12		15.2	TO-15	Total/NA
Tetrachloroethene	1200	1200		21		15.2	TO-15	Total/NA
Trichloroethene	77	77		16		15.2	TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-01S

Date Collected: 12/06/17 09:57

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
Acetone	<5.0	<12		5.0			12/12/17 15:15	1
Benzene	0.78	2.5		0.20			12/12/17 15:15	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 15:15	1
Bromoform	<0.20	<2.1		0.20			12/12/17 15:15	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 15:15	1
2-Butanone (MEK)	<0.50	<1.5		0.50			12/12/17 15:15	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 15:15	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 15:15	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 15:15	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 15:15	1
Chloroform	<0.20	<0.98		0.20			12/12/17 15:15	1
Chloromethane	<0.50	<1.0		0.50			12/12/17 15:15	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 15:15	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 15:15	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 15:15	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 15:15	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 15:15	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 15:15	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 15:15	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 15:15	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 15:15	1
Ethylbenzene	0.24	1.1		0.20			12/12/17 15:15	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 15:15	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 15:15	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 15:15	1
Styrene	<0.20	<0.85		0.20			12/12/17 15:15	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 15:15	1
Tetrachloroethene	2.5	17		0.20			12/12/17 15:15	1
Toluene	1.2	4.6		0.20			12/12/17 15:15	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 15:15	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 15:15	1
Trichloroethene	0.25	1.3		0.20			12/12/17 15:15	1
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 15:15	1
Xylenes, Total	0.84	3.6		0.70			12/12/17 15:15	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	<12	<12		12			12/12/17 15:15	1
Benzene	2.5	2.5		0.64			12/12/17 15:15	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 15:15	1
Bromoform	<2.1	<2.1		2.1			12/12/17 15:15	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 15:15	1
2-Butanone (MEK)	<1.5	<1.5		1.5			12/12/17 15:15	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 15:15	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 15:15	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 15:15	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 15:15	1
Chloroform	<0.98	<0.98		0.98			12/12/17 15:15	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-01S

Date Collected: 12/06/17 09:57

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Chloromethane	<1.0	<1.0		1.0			12/12/17 15:15	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 15:15	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 15:15	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 15:15	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 15:15	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 15:15	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 15:15	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 15:15	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 15:15	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 15:15	1
Ethylbenzene	1.1	1.1		0.87			12/12/17 15:15	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 15:15	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 15:15	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 15:15	1
Styrene	<0.85	<0.85		0.85			12/12/17 15:15	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 15:15	1
Tetrachloroethene	17	17		1.4			12/12/17 15:15	1
Toluene	4.6	4.6		0.75			12/12/17 15:15	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 15:15	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 15:15	1
Trichloroethene	1.3	1.3		1.1			12/12/17 15:15	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 15:15	1
Xylenes, Total	3.6	3.6		3.0			12/12/17 15:15	1

Client Sample ID: SG-TSC-02S

Date Collected: 12/05/17 15:22

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<99000	<240000		99000			12/12/17 16:08	19895.1
Benzene	<4000	<13000		4000			12/12/17 16:08	19895.1
Dichlorobromomethane	<4000	<27000		4000			12/12/17 16:08	19895.1
Bromoform	<4000	<41000		4000			12/12/17 16:08	19895.1
Bromomethane	<4000	<15000		4000			12/12/17 16:08	19895.1
2-Butanone (MEK)	<9900	<29000		9900			12/12/17 16:08	19895.1
Carbon disulfide	<9900	<31000		9900			12/12/17 16:08	19895.1
Carbon tetrachloride	<4000	<25000		4000			12/12/17 16:08	19895.1
Chlorobenzene	<4000	<18000		4000			12/12/17 16:08	19895.1
Chloroethane	<9900	<26000		9900			12/12/17 16:08	19895.1
Chloroform	<4000	<19000		4000			12/12/17 16:08	19895.1
Chloromethane	<9900	<21000		9900			12/12/17 16:08	19895.1
Chlorodibromomethane	<4000	<34000		4000			12/12/17 16:08	19895.1
1,1-Dichloroethane	<4000	<16000		4000			12/12/17 16:08	19895.1
1,2-Dichloroethane	<4000	<16000		4000			12/12/17 16:08	19895.1
cis-1,2-Dichloroethene	<4000	<16000		4000			12/12/17 16:08	19895.1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-02S

Date Collected: 12/05/17 15:22

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v				
trans-1,2-Dichloroethene	<4000	<16000		4000			12/12/17 16:08	19895.1
1,1-Dichloroethene	<4000	<16000		4000			12/12/17 16:08	19895.1
1,2-Dichloropropane	<4000	<18000		4000			12/12/17 16:08	19895.1
cis-1,3-Dichloropropene	<4000	<18000		4000			12/12/17 16:08	19895.1
trans-1,3-Dichloropropene	<4000	<18000		4000			12/12/17 16:08	19895.1
Ethylbenzene	<4000	<17000		4000			12/12/17 16:08	19895.1
2-Hexanone	<9900	<41000		9900			12/12/17 16:08	19895.1
Methylene Chloride	<9900	<35000		9900			12/12/17 16:08	19895.1
4-Methyl-2-pentanone (MIBK)	<9900	<41000		9900			12/12/17 16:08	19895.1
Styrene	<4000	<17000		4000			12/12/17 16:08	19895.1
1,1,2,2-Tetrachloroethane	<4000	<27000		4000			12/12/17 16:08	19895.1
Tetrachloroethene	250000	1700000		4000			12/12/17 16:08	19895.1
Toluene	<4000	<15000		4000			12/12/17 16:08	19895.1
1,1,1-Trichloroethane	<4000	<22000		4000			12/12/17 16:08	19895.1
1,1,2-Trichloroethane	<4000	<22000		4000			12/12/17 16:08	19895.1
Trichloroethene	20000	110000		4000			12/12/17 16:08	19895.1
Vinyl chloride	<4000	<10000		4000			12/12/17 16:08	19895.1
Xylenes, Total	<14000	<60000		14000			12/12/17 16:08	19895.1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	<240000	<240000		240000			12/12/17 16:08	19895.1
Benzene	<13000	<13000		13000			12/12/17 16:08	19895.1
Dichlorobromomethane	<27000	<27000		27000			12/12/17 16:08	19895.1
Bromoform	<41000	<41000		41000			12/12/17 16:08	19895.1
Bromomethane	<15000	<15000		15000			12/12/17 16:08	19895.1
2-Butanone (MEK)	<29000	<29000		29000			12/12/17 16:08	19895.1
Carbon disulfide	<31000	<31000		31000			12/12/17 16:08	19895.1
Carbon tetrachloride	<25000	<25000		25000			12/12/17 16:08	19895.1
Chlorobenzene	<18000	<18000		18000			12/12/17 16:08	19895.1
Chloroethane	<26000	<26000		26000			12/12/17 16:08	19895.1
Chloroform	<19000	<19000		19000			12/12/17 16:08	19895.1
Chloromethane	<21000	<21000		21000			12/12/17 16:08	19895.1
Chlorodibromomethane	<34000	<34000		34000			12/12/17 16:08	19895.1
1,1-Dichloroethane	<16000	<16000		16000			12/12/17 16:08	19895.1
1,2-Dichloroethane	<16000	<16000		16000			12/12/17 16:08	19895.1
cis-1,2-Dichloroethene	<16000	<16000		16000			12/12/17 16:08	19895.1
trans-1,2-Dichloroethene	<16000	<16000		16000			12/12/17 16:08	19895.1
1,1-Dichloroethene	<16000	<16000		16000			12/12/17 16:08	19895.1
1,2-Dichloropropane	<18000	<18000		18000			12/12/17 16:08	19895.1
cis-1,3-Dichloropropene	<18000	<18000		18000			12/12/17 16:08	19895.1
trans-1,3-Dichloropropene	<18000	<18000		18000			12/12/17 16:08	19895.1
Ethylbenzene	<17000	<17000		17000			12/12/17 16:08	19895.1
2-Hexanone	<41000	<41000		41000			12/12/17 16:08	19895.1
Methylene Chloride	<35000	<35000		35000			12/12/17 16:08	19895.1
4-Methyl-2-pentanone (MIBK)	<41000	<41000		41000			12/12/17 16:08	19895.1
Styrene	<17000	<17000		17000			12/12/17 16:08	19895.1
1,1,2,2-Tetrachloroethane	<27000	<27000		27000			12/12/17 16:08	19895.1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-02S

Date Collected: 12/05/17 15:22

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Tetrachloroethene	1700000	1700000		27000			12/12/17 16:08	19895.1
Toluene	<15000	<15000		15000			12/12/17 16:08	19895.1
1,1,1-Trichloroethane	<22000	<22000		22000			12/12/17 16:08	19895.1
1,1,2-Trichloroethane	<22000	<22000		22000			12/12/17 16:08	19895.1
Trichloroethene	110000	110000		21000			12/12/17 16:08	19895.1
Vinyl chloride	<10000	<10000		10000			12/12/17 16:08	19895.1
Xylenes, Total	<60000	<60000		60000			12/12/17 16:08	19895.1

Client Sample ID: SG-TSC-03S

Date Collected: 12/06/17 09:06

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<5.0	<12		5.0			12/13/17 09:55	1
Benzene	<0.20	<0.64		0.20			12/13/17 09:55	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/13/17 09:55	1
Bromoform	<0.20	<2.1		0.20			12/13/17 09:55	1
Bromomethane	<0.20	<0.78		0.20			12/13/17 09:55	1
2-Butanone (MEK)	1.6	4.8		0.50			12/13/17 09:55	1
Carbon disulfide	<0.50	<1.6		0.50			12/13/17 09:55	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/13/17 09:55	1
Chlorobenzene	<0.20	<0.92		0.20			12/13/17 09:55	1
Chloroethane	<0.50	<1.3		0.50			12/13/17 09:55	1
Chloroform	<0.20	<0.98		0.20			12/13/17 09:55	1
Chloromethane	0.54	1.1		0.50			12/13/17 09:55	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/13/17 09:55	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/13/17 09:55	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/13/17 09:55	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/13/17 09:55	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/13/17 09:55	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/13/17 09:55	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/13/17 09:55	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/13/17 09:55	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/13/17 09:55	1
Ethylbenzene	<0.20	<0.87		0.20			12/13/17 09:55	1
2-Hexanone	<0.50	<2.0		0.50			12/13/17 09:55	1
Methylene Chloride	<0.50	<1.7		0.50			12/13/17 09:55	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/13/17 09:55	1
Styrene	<0.20	<0.85		0.20			12/13/17 09:55	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/13/17 09:55	1
Tetrachloroethene	7.0	48		0.20			12/13/17 09:55	1
Toluene	0.29	1.1		0.20			12/13/17 09:55	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/13/17 09:55	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/13/17 09:55	1
Trichloroethene	0.35	1.9		0.20			12/13/17 09:55	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-03S

Lab Sample ID: 200-41333-3

Date Collected: 12/06/17 09:06

Matrix: Air

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20	<0.51		0.20			12/13/17 09:55	1
Xylenes, Total	<0.70	<3.0		0.70			12/13/17 09:55	1
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Acetone	<12	<12		12			12/13/17 09:55	1
Benzene	<0.64	<0.64		0.64			12/13/17 09:55	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/13/17 09:55	1
Bromoform	<2.1	<2.1		2.1			12/13/17 09:55	1
Bromomethane	<0.78	<0.78		0.78			12/13/17 09:55	1
2-Butanone (MEK)	4.8	4.8		1.5			12/13/17 09:55	1
Carbon disulfide	<1.6	<1.6		1.6			12/13/17 09:55	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/13/17 09:55	1
Chlorobenzene	<0.92	<0.92		0.92			12/13/17 09:55	1
Chloroethane	<1.3	<1.3		1.3			12/13/17 09:55	1
Chloroform	<0.98	<0.98		0.98			12/13/17 09:55	1
Chloromethane	1.1	1.1		1.0			12/13/17 09:55	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/13/17 09:55	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/13/17 09:55	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/13/17 09:55	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/13/17 09:55	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/13/17 09:55	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/13/17 09:55	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/13/17 09:55	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/13/17 09:55	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/13/17 09:55	1
Ethylbenzene	<0.87	<0.87		0.87			12/13/17 09:55	1
2-Hexanone	<2.0	<2.0		2.0			12/13/17 09:55	1
Methylene Chloride	<1.7	<1.7		1.7			12/13/17 09:55	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/13/17 09:55	1
Styrene	<0.85	<0.85		0.85			12/13/17 09:55	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/13/17 09:55	1
Tetrachloroethene	48	48		1.4			12/13/17 09:55	1
Toluene	1.1	1.1		0.75			12/13/17 09:55	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/13/17 09:55	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/13/17 09:55	1
Trichloroethene	1.9	1.9		1.1			12/13/17 09:55	1
Vinyl chloride	<0.51	<0.51		0.51			12/13/17 09:55	1
Xylenes, Total	<3.0	<3.0		3.0			12/13/17 09:55	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-04S

Lab Sample ID: 200-41333-4

Matrix: Air

Date Collected: 12/05/17 15:11

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
Acetone	14	34		5.0			12/12/17 17:55	1
Benzene	<0.20	<0.64		0.20			12/12/17 17:55	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 17:55	1
Bromoform	<0.20	<2.1		0.20			12/12/17 17:55	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 17:55	1
2-Butanone (MEK)	2.7	8.0		0.50			12/12/17 17:55	1
Carbon disulfide	8.5	27		0.50			12/12/17 17:55	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 17:55	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 17:55	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 17:55	1
Chloroform	0.22	1.1		0.20			12/12/17 17:55	1
Chloromethane	0.54	1.1		0.50			12/12/17 17:55	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 17:55	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 17:55	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 17:55	1
cis-1,2-Dichloroethene	0.88	3.5		0.20			12/12/17 17:55	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 17:55	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 17:55	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 17:55	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 17:55	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 17:55	1
Ethylbenzene	6.4	28		0.20			12/12/17 17:55	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 17:55	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 17:55	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 17:55	1
Styrene	<0.20	<0.85		0.20			12/12/17 17:55	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 17:55	1
Tetrachloroethene	<0.20	<1.4		0.20			12/12/17 17:55	1
Toluene	8.1	31		0.20			12/12/17 17:55	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 17:55	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 17:55	1
Trichloroethene	<0.20	<1.1		0.20			12/12/17 17:55	1
Vinyl chloride	0.43	1.1		0.20			12/12/17 17:55	1
Xylenes, Total	17	73		0.70			12/12/17 17:55	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	34	34		12			12/12/17 17:55	1
Benzene	<0.64	<0.64		0.64			12/12/17 17:55	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 17:55	1
Bromoform	<2.1	<2.1		2.1			12/12/17 17:55	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 17:55	1
2-Butanone (MEK)	8.0	8.0		1.5			12/12/17 17:55	1
Carbon disulfide	27	27		1.6			12/12/17 17:55	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 17:55	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 17:55	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 17:55	1
Chloroform	1.1	1.1		0.98			12/12/17 17:55	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-04S

Lab Sample ID: 200-41333-4

Matrix: Air

Date Collected: 12/05/17 15:11

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	1.1		1.0			12/12/17 17:55	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 17:55	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 17:55	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 17:55	1
cis-1,2-Dichloroethene	3.5	3.5		0.79			12/12/17 17:55	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 17:55	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 17:55	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 17:55	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 17:55	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 17:55	1
Ethylbenzene	28	28		0.87			12/12/17 17:55	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 17:55	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 17:55	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 17:55	1
Styrene	<0.85	<0.85		0.85			12/12/17 17:55	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 17:55	1
Tetrachloroethene	<1.4	<1.4		1.4			12/12/17 17:55	1
Toluene	31	31		0.75			12/12/17 17:55	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 17:55	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 17:55	1
Trichloroethene	<1.1	<1.1		1.1			12/12/17 17:55	1
Vinyl chloride	1.1	1.1		0.51			12/12/17 17:55	1
Xylenes, Total	73	73		3.0			12/12/17 17:55	1

Client Sample ID: SG-TSC-05S

Lab Sample ID: 200-41333-5

Matrix: Air

Date Collected: 12/06/17 10:53

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	10	25		5.0			12/12/17 18:48	1
Benzene	<0.20	<0.64		0.20			12/12/17 18:48	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 18:48	1
Bromoform	<0.20	<2.1		0.20			12/12/17 18:48	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 18:48	1
2-Butanone (MEK)	1.4	4.1		0.50			12/12/17 18:48	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 18:48	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 18:48	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 18:48	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 18:48	1
Chloroform	<0.20	<0.98		0.20			12/12/17 18:48	1
Chloromethane	0.54	1.1		0.50			12/12/17 18:48	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 18:48	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 18:48	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 18:48	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 18:48	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05S

Date Collected: 12/06/17 10:53

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v				
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 18:48	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 18:48	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 18:48	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 18:48	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 18:48	1
Ethylbenzene	<0.20	<0.87		0.20			12/12/17 18:48	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 18:48	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 18:48	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 18:48	1
Styrene	<0.20	<0.85		0.20			12/12/17 18:48	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 18:48	1
Tetrachloroethene	25	170		0.20			12/12/17 18:48	1
Toluene	0.39	1.5		0.20			12/12/17 18:48	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 18:48	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 18:48	1
Trichloroethene	0.97	5.2		0.20			12/12/17 18:48	1
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 18:48	1
Xylenes, Total	<0.70	<3.0		0.70			12/12/17 18:48	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3				
Acetone	25	25		12			12/12/17 18:48	1
Benzene	<0.64	<0.64		0.64			12/12/17 18:48	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 18:48	1
Bromoform	<2.1	<2.1		2.1			12/12/17 18:48	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 18:48	1
2-Butanone (MEK)	4.1	4.1		1.5			12/12/17 18:48	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 18:48	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 18:48	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 18:48	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 18:48	1
Chloroform	<0.98	<0.98		0.98			12/12/17 18:48	1
Chloromethane	1.1	1.1		1.0			12/12/17 18:48	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 18:48	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 18:48	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 18:48	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 18:48	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 18:48	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 18:48	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 18:48	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 18:48	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 18:48	1
Ethylbenzene	<0.87	<0.87		0.87			12/12/17 18:48	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 18:48	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 18:48	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 18:48	1
Styrene	<0.85	<0.85		0.85			12/12/17 18:48	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 18:48	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05S

Date Collected: 12/06/17 10:53

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Tetrachloroethene	170	170		1.4			12/12/17 18:48	1
Toluene	1.5	1.5		0.75			12/12/17 18:48	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 18:48	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 18:48	1
Trichloroethene	5.2	5.2		1.1			12/12/17 18:48	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 18:48	1
Xylenes, Total	<3.0	<3.0		3.0			12/12/17 18:48	1

Client Sample ID: SG-TSC-05D

Date Collected: 12/07/17 09:49

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<5.0	<12		5.0			12/12/17 19:41	1
Benzene	0.27	0.87		0.20			12/12/17 19:41	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 19:41	1
Bromoform	<0.20	<2.1		0.20			12/12/17 19:41	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 19:41	1
2-Butanone (MEK)	<0.50	<1.5		0.50			12/12/17 19:41	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 19:41	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 19:41	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 19:41	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 19:41	1
Chloroform	<0.20	<0.98		0.20			12/12/17 19:41	1
Chloromethane	0.53	1.1		0.50			12/12/17 19:41	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 19:41	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 19:41	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 19:41	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 19:41	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 19:41	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 19:41	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 19:41	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 19:41	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 19:41	1
Ethylbenzene	<0.20	<0.87		0.20			12/12/17 19:41	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 19:41	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 19:41	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 19:41	1
Styrene	<0.20	<0.85		0.20			12/12/17 19:41	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 19:41	1
Tetrachloroethene	1.4	9.4		0.20			12/12/17 19:41	1
Toluene	1.0	3.8		0.20			12/12/17 19:41	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 19:41	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 19:41	1
Trichloroethene	<0.20	<1.1		0.20			12/12/17 19:41	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05D

Date Collected: 12/07/17 09:49

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 19:41	1
Xylenes, Total	<0.70	<3.0		0.70			12/12/17 19:41	1
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Acetone	<12	<12		12			12/12/17 19:41	1
Benzene	0.87	0.87		0.64			12/12/17 19:41	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 19:41	1
Bromoform	<2.1	<2.1		2.1			12/12/17 19:41	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 19:41	1
2-Butanone (MEK)	<1.5	<1.5		1.5			12/12/17 19:41	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 19:41	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 19:41	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 19:41	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 19:41	1
Chloroform	<0.98	<0.98		0.98			12/12/17 19:41	1
Chloromethane	1.1	1.1		1.0			12/12/17 19:41	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 19:41	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 19:41	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 19:41	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 19:41	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 19:41	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 19:41	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 19:41	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 19:41	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 19:41	1
Ethylbenzene	<0.87	<0.87		0.87			12/12/17 19:41	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 19:41	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 19:41	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 19:41	1
Styrene	<0.85	<0.85		0.85			12/12/17 19:41	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 19:41	1
Tetrachloroethene	9.4	9.4		1.4			12/12/17 19:41	1
Toluene	3.8	3.8		0.75			12/12/17 19:41	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 19:41	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 19:41	1
Trichloroethene	<1.1	<1.1		1.1			12/12/17 19:41	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 19:41	1
Xylenes, Total	<3.0	<3.0		3.0			12/12/17 19:41	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05S-DUP

Lab Sample ID: 200-41333-7

Matrix: Air

Date Collected: 12/06/17 10:53

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
Acetone	<5.0	<12		5.0			12/12/17 20:34	1
Benzene	0.25	0.79		0.20			12/12/17 20:34	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 20:34	1
Bromoform	<0.20	<2.1		0.20			12/12/17 20:34	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 20:34	1
2-Butanone (MEK)	0.52	1.5		0.50			12/12/17 20:34	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 20:34	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 20:34	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 20:34	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 20:34	1
Chloroform	<0.20	<0.98		0.20			12/12/17 20:34	1
Chloromethane	0.56	1.2		0.50			12/12/17 20:34	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 20:34	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 20:34	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 20:34	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 20:34	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 20:34	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 20:34	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 20:34	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 20:34	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 20:34	1
Ethylbenzene	<0.20	<0.87		0.20			12/12/17 20:34	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 20:34	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 20:34	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 20:34	1
Styrene	<0.20	<0.85		0.20			12/12/17 20:34	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 20:34	1
Tetrachloroethene	17	120		0.20			12/12/17 20:34	1
Toluene	10	38		0.20			12/12/17 20:34	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 20:34	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 20:34	1
Trichloroethene	0.53	2.8		0.20			12/12/17 20:34	1
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 20:34	1
Xylenes, Total	<0.70	<3.0		0.70			12/12/17 20:34	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	<12	<12		12			12/12/17 20:34	1
Benzene	0.79	0.79		0.64			12/12/17 20:34	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 20:34	1
Bromoform	<2.1	<2.1		2.1			12/12/17 20:34	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 20:34	1
2-Butanone (MEK)	1.5	1.5		1.5			12/12/17 20:34	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 20:34	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 20:34	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 20:34	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 20:34	1
Chloroform	<0.98	<0.98		0.98			12/12/17 20:34	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05S-DUP
Date Collected: 12/06/17 10:53
Date Received: 12/08/17 10:05
Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Chloromethane	1.2	1.2		1.0			12/12/17 20:34	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 20:34	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 20:34	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 20:34	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 20:34	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 20:34	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 20:34	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 20:34	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 20:34	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 20:34	1
Ethylbenzene	<0.87	<0.87		0.87			12/12/17 20:34	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 20:34	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 20:34	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 20:34	1
Styrene	<0.85	<0.85		0.85			12/12/17 20:34	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 20:34	1
Tetrachloroethene	120	120		1.4			12/12/17 20:34	1
Toluene	38	38		0.75			12/12/17 20:34	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 20:34	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 20:34	1
Trichloroethene	2.8	2.8		1.1			12/12/17 20:34	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 20:34	1
Xylenes, Total	<3.0	<3.0		3.0			12/12/17 20:34	1

Client Sample ID: SG-AMB-01S

Date Collected: 12/06/17 14:22
 Date Received: 12/08/17 10:05
 Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<5.0	<12		5.0			12/12/17 21:27	1
Benzene	0.41	1.3		0.20			12/12/17 21:27	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 21:27	1
Bromoform	<0.20	<2.1		0.20			12/12/17 21:27	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 21:27	1
2-Butanone (MEK)	<0.50	<1.5		0.50			12/12/17 21:27	1
Carbon disulfide	0.69	2.2		0.50			12/12/17 21:27	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 21:27	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 21:27	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 21:27	1
Chloroform	<0.20	<0.98		0.20			12/12/17 21:27	1
Chloromethane	0.51	1.0		0.50			12/12/17 21:27	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 21:27	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 21:27	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 21:27	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 21:27	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-01S

Date Collected: 12/06/17 14:22

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-8

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 21:27	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 21:27	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 21:27	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 21:27	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 21:27	1
Ethylbenzene	<0.20	<0.87		0.20			12/12/17 21:27	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 21:27	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 21:27	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 21:27	1
Styrene	<0.20	<0.85		0.20			12/12/17 21:27	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 21:27	1
Tetrachloroethene	<0.20	<1.4		0.20			12/12/17 21:27	1
Toluene	0.79	3.0		0.20			12/12/17 21:27	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 21:27	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 21:27	1
Trichloroethene	<0.20	<1.1		0.20			12/12/17 21:27	1
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 21:27	1
Xylenes, Total	<0.70	<3.0		0.70			12/12/17 21:27	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	<12	<12		12			12/12/17 21:27	1
Benzene	1.3	1.3		0.64			12/12/17 21:27	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 21:27	1
Bromoform	<2.1	<2.1		2.1			12/12/17 21:27	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 21:27	1
2-Butanone (MEK)	<1.5	<1.5		1.5			12/12/17 21:27	1
Carbon disulfide	2.2	2.2		1.6			12/12/17 21:27	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 21:27	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 21:27	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 21:27	1
Chloroform	<0.98	<0.98		0.98			12/12/17 21:27	1
Chloromethane	1.0	1.0		1.0			12/12/17 21:27	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 21:27	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 21:27	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 21:27	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 21:27	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 21:27	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 21:27	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 21:27	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 21:27	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 21:27	1
Ethylbenzene	<0.87	<0.87		0.87			12/12/17 21:27	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 21:27	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 21:27	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 21:27	1
Styrene	<0.85	<0.85		0.85			12/12/17 21:27	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 21:27	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-01S

Lab Sample ID: 200-41333-8

Matrix: Air

Date Collected: 12/06/17 14:22

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3						
Tetrachloroethene	<1.4	<1.4		1.4			12/12/17 21:27	1
Toluene	3.0	3.0		0.75			12/12/17 21:27	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 21:27	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 21:27	1
Trichloroethene	<1.1	<1.1		1.1			12/12/17 21:27	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 21:27	1
Xylenes, Total	<3.0	<3.0		3.0			12/12/17 21:27	1

Client Sample ID: SG-AMB-02S

Lab Sample ID: 200-41333-9

Matrix: Air

Date Collected: 12/06/17 15:04

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3						
Acetone	<5.0	<12		5.0			12/12/17 22:20	1
Benzene	0.44	1.4		0.20			12/12/17 22:20	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 22:20	1
Bromoform	<0.20	<2.1		0.20			12/12/17 22:20	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 22:20	1
2-Butanone (MEK)	<0.50	<1.5		0.50			12/12/17 22:20	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 22:20	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 22:20	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 22:20	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 22:20	1
Chloroform	<0.20	<0.98		0.20			12/12/17 22:20	1
Chloromethane	0.50	1.0		0.50			12/12/17 22:20	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 22:20	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 22:20	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 22:20	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 22:20	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 22:20	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 22:20	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 22:20	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 22:20	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 22:20	1
Ethylbenzene	<0.20	<0.87		0.20			12/12/17 22:20	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 22:20	1
Methylene Chloride	<0.50	<1.7		0.50			12/12/17 22:20	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 22:20	1
Styrene	<0.20	<0.85		0.20			12/12/17 22:20	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 22:20	1
Tetrachloroethene	24	160		0.20			12/12/17 22:20	1
Toluene	0.88	3.3		0.20			12/12/17 22:20	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 22:20	1
1,1,2-Trichloroethane	0.76	4.1		0.20			12/12/17 22:20	1
Trichloroethene	0.64	3.4		0.20			12/12/17 22:20	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-02S

Lab Sample ID: 200-41333-9

Matrix: Air

Date Collected: 12/06/17 15:04

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 22:20	1
Xylenes, Total	<0.70	<3.0		0.70			12/12/17 22:20	1
Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Acetone	<12	<12		12			12/12/17 22:20	1
Benzene	1.4	1.4		0.64			12/12/17 22:20	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 22:20	1
Bromoform	<2.1	<2.1		2.1			12/12/17 22:20	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 22:20	1
2-Butanone (MEK)	<1.5	<1.5		1.5			12/12/17 22:20	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 22:20	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 22:20	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 22:20	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 22:20	1
Chloroform	<0.98	<0.98		0.98			12/12/17 22:20	1
Chloromethane	1.0	1.0		1.0			12/12/17 22:20	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 22:20	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 22:20	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 22:20	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 22:20	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 22:20	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 22:20	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 22:20	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 22:20	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 22:20	1
Ethylbenzene	<0.87	<0.87		0.87			12/12/17 22:20	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 22:20	1
Methylene Chloride	<1.7	<1.7		1.7			12/12/17 22:20	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 22:20	1
Styrene	<0.85	<0.85		0.85			12/12/17 22:20	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 22:20	1
Tetrachloroethene	160	160		1.4			12/12/17 22:20	1
Toluene	3.3	3.3		0.75			12/12/17 22:20	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 22:20	1
1,1,2-Trichloroethane	4.1	4.1		1.1			12/12/17 22:20	1
Trichloroethene	3.4	3.4		1.1			12/12/17 22:20	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 22:20	1
Xylenes, Total	<3.0	<3.0		3.0			12/12/17 22:20	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-02D

Lab Sample ID: 200-41333-10

Matrix: Air

Date Collected: 12/06/17 15:38

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
Acetone	12	28		5.0			12/12/17 23:13	1
Benzene	0.26	0.84		0.20			12/12/17 23:13	1
Dichlorobromomethane	<0.20	<1.3		0.20			12/12/17 23:13	1
Bromoform	<0.20	<2.1		0.20			12/12/17 23:13	1
Bromomethane	<0.20	<0.78		0.20			12/12/17 23:13	1
2-Butanone (MEK)	3.7	11		0.50			12/12/17 23:13	1
Carbon disulfide	<0.50	<1.6		0.50			12/12/17 23:13	1
Carbon tetrachloride	<0.20	<1.3		0.20			12/12/17 23:13	1
Chlorobenzene	<0.20	<0.92		0.20			12/12/17 23:13	1
Chloroethane	<0.50	<1.3		0.50			12/12/17 23:13	1
Chloroform	<0.20	<0.98		0.20			12/12/17 23:13	1
Chloromethane	0.53	1.1		0.50			12/12/17 23:13	1
Chlorodibromomethane	<0.20	<1.7		0.20			12/12/17 23:13	1
1,1-Dichloroethane	<0.20	<0.81		0.20			12/12/17 23:13	1
1,2-Dichloroethane	<0.20	<0.81		0.20			12/12/17 23:13	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 23:13	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20			12/12/17 23:13	1
1,1-Dichloroethene	<0.20	<0.79		0.20			12/12/17 23:13	1
1,2-Dichloropropane	<0.20	<0.92		0.20			12/12/17 23:13	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 23:13	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20			12/12/17 23:13	1
Ethylbenzene	0.41	1.8		0.20			12/12/17 23:13	1
2-Hexanone	<0.50	<2.0		0.50			12/12/17 23:13	1
Methylene Chloride	0.52	1.8		0.50			12/12/17 23:13	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50			12/12/17 23:13	1
Styrene	0.26	1.1		0.20			12/12/17 23:13	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20			12/12/17 23:13	1
Tetrachloroethene	1.2	8.0		0.20			12/12/17 23:13	1
Toluene	7.0	26		0.20			12/12/17 23:13	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20			12/12/17 23:13	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20			12/12/17 23:13	1
Trichloroethene	<0.20	<1.1		0.20			12/12/17 23:13	1
Vinyl chloride	<0.20	<0.51		0.20			12/12/17 23:13	1
Xylenes, Total	1.8	7.7		0.70			12/12/17 23:13	1
Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	28	28		12			12/12/17 23:13	1
Benzene	0.84	0.84		0.64			12/12/17 23:13	1
Dichlorobromomethane	<1.3	<1.3		1.3			12/12/17 23:13	1
Bromoform	<2.1	<2.1		2.1			12/12/17 23:13	1
Bromomethane	<0.78	<0.78		0.78			12/12/17 23:13	1
2-Butanone (MEK)	11	11		1.5			12/12/17 23:13	1
Carbon disulfide	<1.6	<1.6		1.6			12/12/17 23:13	1
Carbon tetrachloride	<1.3	<1.3		1.3			12/12/17 23:13	1
Chlorobenzene	<0.92	<0.92		0.92			12/12/17 23:13	1
Chloroethane	<1.3	<1.3		1.3			12/12/17 23:13	1
Chloroform	<0.98	<0.98		0.98			12/12/17 23:13	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-AMB-02D

Lab Sample ID: 200-41333-10

Matrix: Air

Date Collected: 12/06/17 15:38

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Chloromethane	1.1	1.1		1.0			12/12/17 23:13	1
Chlorodibromomethane	<1.7	<1.7		1.7			12/12/17 23:13	1
1,1-Dichloroethane	<0.81	<0.81		0.81			12/12/17 23:13	1
1,2-Dichloroethane	<0.81	<0.81		0.81			12/12/17 23:13	1
cis-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 23:13	1
trans-1,2-Dichloroethene	<0.79	<0.79		0.79			12/12/17 23:13	1
1,1-Dichloroethene	<0.79	<0.79		0.79			12/12/17 23:13	1
1,2-Dichloropropane	<0.92	<0.92		0.92			12/12/17 23:13	1
cis-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 23:13	1
trans-1,3-Dichloropropene	<0.91	<0.91		0.91			12/12/17 23:13	1
Ethylbenzene	1.8	1.8		0.87			12/12/17 23:13	1
2-Hexanone	<2.0	<2.0		2.0			12/12/17 23:13	1
Methylene Chloride	1.8	1.8		1.7			12/12/17 23:13	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0		2.0			12/12/17 23:13	1
Styrene	1.1	1.1		0.85			12/12/17 23:13	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4		1.4			12/12/17 23:13	1
Tetrachloroethene	8.0	8.0		1.4			12/12/17 23:13	1
Toluene	26	26		0.75			12/12/17 23:13	1
1,1,1-Trichloroethane	<1.1	<1.1		1.1			12/12/17 23:13	1
1,1,2-Trichloroethane	<1.1	<1.1		1.1			12/12/17 23:13	1
Trichloroethene	<1.1	<1.1		1.1			12/12/17 23:13	1
Vinyl chloride	<0.51	<0.51		0.51			12/12/17 23:13	1
Xylenes, Total	7.7	7.7		3.0			12/12/17 23:13	1

Client Sample ID: SG-FRSC-01S

Lab Sample ID: 200-41333-11

Matrix: Air

Date Collected: 12/06/17 12:48

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<160	<370		160			12/13/17 00:07	31.4
Benzene	<6.3	<20		6.3			12/13/17 00:07	31.4
Dichlorobromomethane	<6.3	<42		6.3			12/13/17 00:07	31.4
Bromoform	<6.3	<65		6.3			12/13/17 00:07	31.4
Bromomethane	<6.3	<24		6.3			12/13/17 00:07	31.4
2-Butanone (MEK)	<16	<46		16			12/13/17 00:07	31.4
Carbon disulfide	<16	<49		16			12/13/17 00:07	31.4
Carbon tetrachloride	<6.3	<40		6.3			12/13/17 00:07	31.4
Chlorobenzene	<6.3	<29		6.3			12/13/17 00:07	31.4
Chloroethane	<16	<41		16			12/13/17 00:07	31.4
Chloroform	<6.3	<31		6.3			12/13/17 00:07	31.4
Chloromethane	<16	<32		16			12/13/17 00:07	31.4
Chlorodibromomethane	<6.3	<53		6.3			12/13/17 00:07	31.4
1,1-Dichloroethane	<6.3	<25		6.3			12/13/17 00:07	31.4
1,2-Dichloroethane	<6.3	<25		6.3			12/13/17 00:07	31.4
cis-1,2-Dichloroethene	<6.3	<25		6.3			12/13/17 00:07	31.4

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-01S

Lab Sample ID: 200-41333-11

Matrix: Air

Date Collected: 12/06/17 12:48

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	RL	MDL		Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		Qualifier	ppb v/v			
trans-1,2-Dichloroethene	<6.3	<25	6.3				12/13/17 00:07	31.4
1,1-Dichloroethene	<6.3	<25	6.3				12/13/17 00:07	31.4
1,2-Dichloropropane	<6.3	<29	6.3				12/13/17 00:07	31.4
cis-1,3-Dichloropropene	<6.3	<29	6.3				12/13/17 00:07	31.4
trans-1,3-Dichloropropene	<6.3	<29	6.3				12/13/17 00:07	31.4
Ethylbenzene	<6.3	<27	6.3				12/13/17 00:07	31.4
2-Hexanone	<16	<64	16				12/13/17 00:07	31.4
Methylene Chloride	<16	<55	16				12/13/17 00:07	31.4
4-Methyl-2-pentanone (MIBK)	<16	<64	16				12/13/17 00:07	31.4
Styrene	<6.3	<27	6.3				12/13/17 00:07	31.4
1,1,2,2-Tetrachloroethane	<6.3	<43	6.3				12/13/17 00:07	31.4
Tetrachloroethene	430	2900	6.3				12/13/17 00:07	31.4
Toluene	<6.3	<24	6.3				12/13/17 00:07	31.4
1,1,1-Trichloroethane	<6.3	<34	6.3				12/13/17 00:07	31.4
1,1,2-Trichloroethane	<6.3	<34	6.3				12/13/17 00:07	31.4
Trichloroethene	<6.3	<34	6.3				12/13/17 00:07	31.4
Vinyl chloride	<6.3	<16	6.3				12/13/17 00:07	31.4
Xylenes, Total	<22	<95	22				12/13/17 00:07	31.4

Analyte	Result	Result	RL	MDL		Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		Qualifier	ug/m3			
Acetone	<370	<370	370				12/13/17 00:07	31.4
Benzene	<20	<20	20				12/13/17 00:07	31.4
Dichlorobromomethane	<42	<42	42				12/13/17 00:07	31.4
Bromoform	<65	<65	65				12/13/17 00:07	31.4
Bromomethane	<24	<24	24				12/13/17 00:07	31.4
2-Butanone (MEK)	<46	<46	46				12/13/17 00:07	31.4
Carbon disulfide	<49	<49	49				12/13/17 00:07	31.4
Carbon tetrachloride	<40	<40	40				12/13/17 00:07	31.4
Chlorobenzene	<29	<29	29				12/13/17 00:07	31.4
Chloroethane	<41	<41	41				12/13/17 00:07	31.4
Chloroform	<31	<31	31				12/13/17 00:07	31.4
Chloromethane	<32	<32	32				12/13/17 00:07	31.4
Chlorodibromomethane	<53	<53	53				12/13/17 00:07	31.4
1,1-Dichloroethane	<25	<25	25				12/13/17 00:07	31.4
1,2-Dichloroethane	<25	<25	25				12/13/17 00:07	31.4
cis-1,2-Dichloroethene	<25	<25	25				12/13/17 00:07	31.4
trans-1,2-Dichloroethene	<25	<25	25				12/13/17 00:07	31.4
1,1-Dichloroethene	<25	<25	25				12/13/17 00:07	31.4
1,2-Dichloropropane	<29	<29	29				12/13/17 00:07	31.4
cis-1,3-Dichloropropene	<29	<29	29				12/13/17 00:07	31.4
trans-1,3-Dichloropropene	<29	<29	29				12/13/17 00:07	31.4
Ethylbenzene	<27	<27	27				12/13/17 00:07	31.4
2-Hexanone	<64	<64	64				12/13/17 00:07	31.4
Methylene Chloride	<55	<55	55				12/13/17 00:07	31.4
4-Methyl-2-pentanone (MIBK)	<64	<64	64				12/13/17 00:07	31.4
Styrene	<27	<27	27				12/13/17 00:07	31.4
1,1,2,2-Tetrachloroethane	<43	<43	43				12/13/17 00:07	31.4

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-01S

Date Collected: 12/06/17 12:48

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-11

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Tetrachloroethene	2900	2900		43			12/13/17 00:07	31.4
Toluene	<24	<24		24			12/13/17 00:07	31.4
1,1,1-Trichloroethane	<34	<34		34			12/13/17 00:07	31.4
1,1,2-Trichloroethane	<34	<34		34			12/13/17 00:07	31.4
Trichloroethylene	<34	<34		34			12/13/17 00:07	31.4
Vinyl chloride	<16	<16		16			12/13/17 00:07	31.4
Xylenes, Total	<95	<95		95			12/13/17 00:07	31.4

Client Sample ID: SG-FRSC-02S

Date Collected: 12/06/17 11:58

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-12

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result ppb v/v	Result ug/m3	Qualifier	RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
Acetone	<520	<1200		520			12/13/17 10:48	104
Benzene	<21	<66		21			12/13/17 10:48	104
Dichlorobromomethane	<21	<140		21			12/13/17 10:48	104
Bromoform	<21	<220		21			12/13/17 10:48	104
Bromomethane	<21	<81		21			12/13/17 10:48	104
2-Butanone (MEK)	<52	<150		52			12/13/17 10:48	104
Carbon disulfide	<52	<160		52			12/13/17 10:48	104
Carbon tetrachloride	<21	<130		21			12/13/17 10:48	104
Chlorobenzene	<21	<96		21			12/13/17 10:48	104
Chloroethane	<52	<140		52			12/13/17 10:48	104
Chloroform	<21	<100		21			12/13/17 10:48	104
Chloromethane	<52	<110		52			12/13/17 10:48	104
Chlorodibromomethane	<21	<180		21			12/13/17 10:48	104
1,1-Dichloroethane	<21	<84		21			12/13/17 10:48	104
1,2-Dichloroethane	<21	<84		21			12/13/17 10:48	104
cis-1,2-Dichloroethene	<21	<82		21			12/13/17 10:48	104
trans-1,2-Dichloroethene	<21	<82		21			12/13/17 10:48	104
1,1-Dichloroethene	<21	<82		21			12/13/17 10:48	104
1,2-Dichloropropane	<21	<96		21			12/13/17 10:48	104
cis-1,3-Dichloropropene	<21	<94		21			12/13/17 10:48	104
trans-1,3-Dichloropropene	<21	<94		21			12/13/17 10:48	104
Ethylbenzene	<21	<90		21			12/13/17 10:48	104
2-Hexanone	<52	<210		52			12/13/17 10:48	104
Methylene Chloride	<52	<180		52			12/13/17 10:48	104
4-Methyl-2-pentanone (MIBK)	<52	<210		52			12/13/17 10:48	104
Styrene	<21	<89		21			12/13/17 10:48	104
1,1,2,2-Tetrachloroethane	<21	<140		21			12/13/17 10:48	104
Tetrachloroethene	3000	20000		21			12/13/17 10:48	104
Toluene	<21	<78		21			12/13/17 10:48	104
1,1,1-Trichloroethane	<21	<110		21			12/13/17 10:48	104
1,1,2-Trichloroethane	<21	<110		21			12/13/17 10:48	104
Trichloroethene	100	540		21			12/13/17 10:48	104

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-02S

Lab Sample ID: 200-41333-12

Matrix: Air

Date Collected: 12/06/17 11:58

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Result	RL	MDL		Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		Qualifier	ppb v/v			
Vinyl chloride	<21	<53	21				12/13/17 10:48	104
Xylenes, Total	<73	<320	73				12/13/17 10:48	104
Analyte	Result	Result	RL	MDL	Prepared	Analyzed	Dil Fac	
	ug/m3	ug/m3	ug/m3	ug/m3				
Acetone	<1200	<1200	1200			12/13/17 10:48	104	
Benzene	<66	<66	66			12/13/17 10:48	104	
Dichlorobromomethane	<140	<140	140			12/13/17 10:48	104	
Bromoform	<220	<220	220			12/13/17 10:48	104	
Bromomethane	<81	<81	81			12/13/17 10:48	104	
2-Butanone (MEK)	<150	<150	150			12/13/17 10:48	104	
Carbon disulfide	<160	<160	160			12/13/17 10:48	104	
Carbon tetrachloride	<130	<130	130			12/13/17 10:48	104	
Chlorobenzene	<96	<96	96			12/13/17 10:48	104	
Chloroethane	<140	<140	140			12/13/17 10:48	104	
Chloroform	<100	<100	100			12/13/17 10:48	104	
Chloromethane	<110	<110	110			12/13/17 10:48	104	
Chlorodibromomethane	<180	<180	180			12/13/17 10:48	104	
1,1-Dichloroethane	<84	<84	84			12/13/17 10:48	104	
1,2-Dichloroethane	<84	<84	84			12/13/17 10:48	104	
cis-1,2-Dichloroethene	<82	<82	82			12/13/17 10:48	104	
trans-1,2-Dichloroethene	<82	<82	82			12/13/17 10:48	104	
1,1-Dichloroethene	<82	<82	82			12/13/17 10:48	104	
1,2-Dichloropropane	<96	<96	96			12/13/17 10:48	104	
cis-1,3-Dichloropropene	<94	<94	94			12/13/17 10:48	104	
trans-1,3-Dichloropropene	<94	<94	94			12/13/17 10:48	104	
Ethylbenzene	<90	<90	90			12/13/17 10:48	104	
2-Hexanone	<210	<210	210			12/13/17 10:48	104	
Methylene Chloride	<180	<180	180			12/13/17 10:48	104	
4-Methyl-2-pentanone (MIBK)	<210	<210	210			12/13/17 10:48	104	
Styrene	<89	<89	89			12/13/17 10:48	104	
1,1,2,2-Tetrachloroethane	<140	<140	140			12/13/17 10:48	104	
Tetrachloroethene	20000	20000	140			12/13/17 10:48	104	
Toluene	<78	<78	78			12/13/17 10:48	104	
1,1,1-Trichloroethane	<110	<110	110			12/13/17 10:48	104	
1,1,2-Trichloroethane	<110	<110	110			12/13/17 10:48	104	
Trichloroethene	540	540	110			12/13/17 10:48	104	
Vinyl chloride	<53	<53	53			12/13/17 10:48	104	
Xylenes, Total	<320	<320	320			12/13/17 10:48	104	

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-02D

Date Collected: 12/07/17 08:46

Date Received: 12/08/17 10:05

Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-13

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ppb v/v	ug/m3		ppb v/v	ppb v/v			
Acetone	<76	<180		76			12/13/17 01:53	15.2
Benzene	<3.0	<9.7		3.0			12/13/17 01:53	15.2
Dichlorobromomethane	<3.0	<20		3.0			12/13/17 01:53	15.2
Bromoform	<3.0	<31		3.0			12/13/17 01:53	15.2
Bromomethane	<3.0	<12		3.0			12/13/17 01:53	15.2
2-Butanone (MEK)	<7.6	<22		7.6			12/13/17 01:53	15.2
Carbon disulfide	<7.6	<24		7.6			12/13/17 01:53	15.2
Carbon tetrachloride	<3.0	<19		3.0			12/13/17 01:53	15.2
Chlorobenzene	<3.0	<14		3.0			12/13/17 01:53	15.2
Chloroethane	<7.6	<20		7.6			12/13/17 01:53	15.2
Chloroform	<3.0	<15		3.0			12/13/17 01:53	15.2
Chloromethane	<7.6	<16		7.6			12/13/17 01:53	15.2
Chlorodibromomethane	<3.0	<26		3.0			12/13/17 01:53	15.2
1,1-Dichloroethane	<3.0	<12		3.0			12/13/17 01:53	15.2
1,2-Dichloroethane	<3.0	<12		3.0			12/13/17 01:53	15.2
cis-1,2-Dichloroethene	3.1	12		3.0			12/13/17 01:53	15.2
trans-1,2-Dichloroethene	<3.0	<12		3.0			12/13/17 01:53	15.2
1,1-Dichloroethene	<3.0	<12		3.0			12/13/17 01:53	15.2
1,2-Dichloropropane	<3.0	<14		3.0			12/13/17 01:53	15.2
cis-1,3-Dichloropropene	<3.0	<14		3.0			12/13/17 01:53	15.2
trans-1,3-Dichloropropene	<3.0	<14		3.0			12/13/17 01:53	15.2
Ethylbenzene	<3.0	<13		3.0			12/13/17 01:53	15.2
2-Hexanone	<7.6	<31		7.6			12/13/17 01:53	15.2
Methylene Chloride	<7.6	<26		7.6			12/13/17 01:53	15.2
4-Methyl-2-pentanone (MIBK)	<7.6	<31		7.6			12/13/17 01:53	15.2
Styrene	<3.0	<13		3.0			12/13/17 01:53	15.2
1,1,2,2-Tetrachloroethane	<3.0	<21		3.0			12/13/17 01:53	15.2
Tetrachloroethene	180	1200		3.0			12/13/17 01:53	15.2
Toluene	<3.0	<11		3.0			12/13/17 01:53	15.2
1,1,1-Trichloroethane	<3.0	<17		3.0			12/13/17 01:53	15.2
1,1,2-Trichloroethane	<3.0	<17		3.0			12/13/17 01:53	15.2
Trichloroethene	14	77		3.0			12/13/17 01:53	15.2
Vinyl chloride	<3.0	<7.8		3.0			12/13/17 01:53	15.2
Xylenes, Total	<11	<46		11			12/13/17 01:53	15.2

Analyte	Result	Result	Qualifier	RL	MDL	Prepared	Analyzed	Dil Fac
	ug/m3	ug/m3		ug/m3	ug/m3			
Acetone	<180	<180		180			12/13/17 01:53	15.2
Benzene	<9.7	<9.7		9.7			12/13/17 01:53	15.2
Dichlorobromomethane	<20	<20		20			12/13/17 01:53	15.2
Bromoform	<31	<31		31			12/13/17 01:53	15.2
Bromomethane	<12	<12		12			12/13/17 01:53	15.2
2-Butanone (MEK)	<22	<22		22			12/13/17 01:53	15.2
Carbon disulfide	<24	<24		24			12/13/17 01:53	15.2
Carbon tetrachloride	<19	<19		19			12/13/17 01:53	15.2
Chlorobenzene	<14	<14		14			12/13/17 01:53	15.2
Chloroethane	<20	<20		20			12/13/17 01:53	15.2
Chloroform	<15	<15		15			12/13/17 01:53	15.2

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-02D
Date Collected: 12/07/17 08:46
Date Received: 12/08/17 10:05
Sample Container: Summa Canister 6L

Lab Sample ID: 200-41333-13
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result ug/m3	Result ug/m3	Qualifier	RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
Chloromethane	<16	<16		16			12/13/17 01:53	15.2
Chlorodibromomethane	<26	<26		26			12/13/17 01:53	15.2
1,1-Dichloroethane	<12	<12		12			12/13/17 01:53	15.2
1,2-Dichloroethane	<12	<12		12			12/13/17 01:53	15.2
cis-1,2-Dichloroethene	12	12		12			12/13/17 01:53	15.2
trans-1,2-Dichloroethene	<12	<12		12			12/13/17 01:53	15.2
1,1-Dichloroethene	<12	<12		12			12/13/17 01:53	15.2
1,2-Dichloropropane	<14	<14		14			12/13/17 01:53	15.2
cis-1,3-Dichloropropene	<14	<14		14			12/13/17 01:53	15.2
trans-1,3-Dichloropropene	<14	<14		14			12/13/17 01:53	15.2
Ethylbenzene	<13	<13		13			12/13/17 01:53	15.2
2-Hexanone	<31	<31		31			12/13/17 01:53	15.2
Methylene Chloride	<26	<26		26			12/13/17 01:53	15.2
4-Methyl-2-pentanone (MIBK)	<31	<31		31			12/13/17 01:53	15.2
Styrene	<13	<13		13			12/13/17 01:53	15.2
1,1,2,2-Tetrachloroethane	<21	<21		21			12/13/17 01:53	15.2
Tetrachloroethene	1200	1200		21			12/13/17 01:53	15.2
Toluene	<11	<11		11			12/13/17 01:53	15.2
1,1,1-Trichloroethane	<17	<17		17			12/13/17 01:53	15.2
1,1,2-Trichloroethane	<17	<17		17			12/13/17 01:53	15.2
Trichloroethene	77	77		16			12/13/17 01:53	15.2
Vinyl chloride	<7.8	<7.8		7.8			12/13/17 01:53	15.2
Xylenes, Total	<46	<46		46			12/13/17 01:53	15.2

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-124342/4

Matrix: Air

Analysis Batch: 124342

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

Analyte	MB Result ppb v/v	MB			RL ppb v/v	MDL ppb v/v	Prepared	Analyzed	Dil Fac
		Result ug/m3	MB Qualifier	RL ppb v/v					
Acetone	<5.0	<12		5.0				12/12/17 14:22	1
Benzene	<0.20	<0.64		0.20				12/12/17 14:22	1
Dichlorobromomethane	<0.20	<1.3		0.20				12/12/17 14:22	1
Bromoform	<0.20	<2.1		0.20				12/12/17 14:22	1
Bromomethane	<0.20	<0.78		0.20				12/12/17 14:22	1
2-Butanone (MEK)	<0.50	<1.5		0.50				12/12/17 14:22	1
Carbon disulfide	<0.50	<1.6		0.50				12/12/17 14:22	1
Carbon tetrachloride	<0.20	<1.3		0.20				12/12/17 14:22	1
Chlorobenzene	<0.20	<0.92		0.20				12/12/17 14:22	1
Chloroethane	<0.50	<1.3		0.50				12/12/17 14:22	1
Chloroform	<0.20	<0.98		0.20				12/12/17 14:22	1
Chloromethane	<0.50	<1.0		0.50				12/12/17 14:22	1
Chlorodibromomethane	<0.20	<1.7		0.20				12/12/17 14:22	1
1,1-Dichloroethane	<0.20	<0.81		0.20				12/12/17 14:22	1
1,2-Dichloroethane	<0.20	<0.81		0.20				12/12/17 14:22	1
cis-1,2-Dichloroethene	<0.20	<0.79		0.20				12/12/17 14:22	1
trans-1,2-Dichloroethene	<0.20	<0.79		0.20				12/12/17 14:22	1
1,1-Dichloroethene	<0.20	<0.79		0.20				12/12/17 14:22	1
1,2-Dichloropropane	<0.20	<0.92		0.20				12/12/17 14:22	1
cis-1,3-Dichloropropene	<0.20	<0.91		0.20				12/12/17 14:22	1
trans-1,3-Dichloropropene	<0.20	<0.91		0.20				12/12/17 14:22	1
Ethylbenzene	<0.20	<0.87		0.20				12/12/17 14:22	1
2-Hexanone	<0.50	<2.0		0.50				12/12/17 14:22	1
Methylene Chloride	<0.50	<1.7		0.50				12/12/17 14:22	1
4-Methyl-2-pentanone (MIBK)	<0.50	<2.0		0.50				12/12/17 14:22	1
Styrene	<0.20	<0.85		0.20				12/12/17 14:22	1
1,1,2,2-Tetrachloroethane	<0.20	<1.4		0.20				12/12/17 14:22	1
Tetrachloroethene	<0.20	<1.4		0.20				12/12/17 14:22	1
Toluene	<0.20	<0.75		0.20				12/12/17 14:22	1
1,1,1-Trichloroethane	<0.20	<1.1		0.20				12/12/17 14:22	1
1,1,2-Trichloroethane	<0.20	<1.1		0.20				12/12/17 14:22	1
Trichloroethene	<0.20	<1.1		0.20				12/12/17 14:22	1
Vinyl chloride	<0.20	<0.51		0.20				12/12/17 14:22	1
Xylenes, Total	<0.70	<3.0		0.70				12/12/17 14:22	1
Analyte	MB Result ug/m3	MB			RL ug/m3	MDL ug/m3	Prepared	Analyzed	Dil Fac
		Result ug/m3	MB Qualifier	RL ug/m3					
Acetone	<12	<12		12				12/12/17 14:22	1
Benzene	<0.64	<0.64		0.64				12/12/17 14:22	1
Dichlorobromomethane	<1.3	<1.3		1.3				12/12/17 14:22	1
Bromoform	<2.1	<2.1		2.1				12/12/17 14:22	1
Bromomethane	<0.78	<0.78		0.78				12/12/17 14:22	1
2-Butanone (MEK)	<1.5	<1.5		1.5				12/12/17 14:22	1
Carbon disulfide	<1.6	<1.6		1.6				12/12/17 14:22	1
Carbon tetrachloride	<1.3	<1.3		1.3				12/12/17 14:22	1
Chlorobenzene	<0.92	<0.92		0.92				12/12/17 14:22	1
Chloroethane	<1.3	<1.3		1.3				12/12/17 14:22	1

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-124342/4

Matrix: Air

Analysis Batch: 124342

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

Analyte	MB	MB			RL	MDL	Prepared	Analyzed	Dil Fac
	Result ug/m3	Result ug/m3	MB ug/m3	Qualifier					
Chloroform	<0.98	<0.98			0.98			12/12/17 14:22	1
Chloromethane	<1.0	<1.0			1.0			12/12/17 14:22	1
Chlorodibromomethane	<1.7	<1.7			1.7			12/12/17 14:22	1
1,1-Dichloroethane	<0.81	<0.81			0.81			12/12/17 14:22	1
1,2-Dichloroethane	<0.81	<0.81			0.81			12/12/17 14:22	1
cis-1,2-Dichloroethene	<0.79	<0.79			0.79			12/12/17 14:22	1
trans-1,2-Dichloroethene	<0.79	<0.79			0.79			12/12/17 14:22	1
1,1-Dichloroethene	<0.79	<0.79			0.79			12/12/17 14:22	1
1,2-Dichloropropane	<0.92	<0.92			0.92			12/12/17 14:22	1
cis-1,3-Dichloropropene	<0.91	<0.91			0.91			12/12/17 14:22	1
trans-1,3-Dichloropropene	<0.91	<0.91			0.91			12/12/17 14:22	1
Ethylbenzene	<0.87	<0.87			0.87			12/12/17 14:22	1
2-Hexanone	<2.0	<2.0			2.0			12/12/17 14:22	1
Methylene Chloride	<1.7	<1.7			1.7			12/12/17 14:22	1
4-Methyl-2-pentanone (MIBK)	<2.0	<2.0			2.0			12/12/17 14:22	1
Styrene	<0.85	<0.85			0.85			12/12/17 14:22	1
1,1,2,2-Tetrachloroethane	<1.4	<1.4			1.4			12/12/17 14:22	1
Tetrachloroethene	<1.4	<1.4			1.4			12/12/17 14:22	1
Toluene	<0.75	<0.75			0.75			12/12/17 14:22	1
1,1,1-Trichloroethane	<1.1	<1.1			1.1			12/12/17 14:22	1
1,1,2-Trichloroethane	<1.1	<1.1			1.1			12/12/17 14:22	1
Trichloroethene	<1.1	<1.1			1.1			12/12/17 14:22	1
Vinyl chloride	<0.51	<0.51			0.51			12/12/17 14:22	1
Xylenes, Total	<3.0	<3.0			3.0			12/12/17 14:22	1

Lab Sample ID: LCS 200-124342/3

Matrix: Air

Analysis Batch: 124342

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

Analyte	Spike Added	LCS		Unit	D	%Rec	%Rec.	
	Result	Qualifier	Unit				Limits	Limits
Acetone	10.0	9.56	ppb v/v		96	64 - 136		
Benzene	10.0	9.13	ppb v/v		91	67 - 127		
Dichlorobromomethane	10.0	9.01	ppb v/v		90	69 - 129		
Bromoform	10.0	7.68	ppb v/v		77	34 - 170		
Bromomethane	10.0	9.09	ppb v/v		91	68 - 128		
2-Butanone (MEK)	10.0	9.34	ppb v/v		93	62 - 122		
Carbon disulfide	10.0	10.8	ppb v/v		108	81 - 141		
Carbon tetrachloride	10.0	8.89	ppb v/v		89	62 - 143		
Chlorobenzene	10.0	9.03	ppb v/v		90	68 - 128		
Chloroethane	10.0	9.21	ppb v/v		92	65 - 125		
Chloroform	10.0	9.11	ppb v/v		91	69 - 129		
Chloromethane	10.0	8.84	ppb v/v		88	57 - 126		
Chlorodibromomethane	10.0	8.71	ppb v/v		87	66 - 130		
1,1-Dichloroethane	10.0	8.97	ppb v/v		90	66 - 126		
1,2-Dichloroethane	10.0	9.04	ppb v/v		90	67 - 132		
cis-1,2-Dichloroethene	10.0	8.74	ppb v/v		87	67 - 127		
trans-1,2-Dichloroethene	10.0	9.49	ppb v/v		95	72 - 132		

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-124342/3

Matrix: Air

Analysis Batch: 124342

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
1,1-Dichloroethene	10.0	8.61		ppb v/v		86	67 - 127
1,2-Dichloropropane	10.0	9.28		ppb v/v		93	67 - 127
cis-1,3-Dichloropropene	10.0	9.46		ppb v/v		95	70 - 130
trans-1,3-Dichloropropene	10.0	9.23		ppb v/v		92	69 - 129
Ethylbenzene	10.0	9.11		ppb v/v		91	68 - 128
2-Hexanone	10.0	9.68		ppb v/v		97	61 - 127
Methylene Chloride	10.0	9.22		ppb v/v		92	62 - 122
4-Methyl-2-pentanone (MIBK)	10.0	9.54		ppb v/v		95	62 - 130
Styrene	10.0	9.39		ppb v/v		94	68 - 128
1,1,2,2-Tetrachloroethane	10.0	9.16		ppb v/v		92	69 - 129
Tetrachloroethene	10.0	8.77		ppb v/v		88	70 - 130
Toluene	10.0	9.27		ppb v/v		93	67 - 127
1,1,1-Trichloroethane	10.0	8.88		ppb v/v		89	70 - 130
1,1,2-Trichloroethane	10.0	9.35		ppb v/v		94	69 - 129
Trichloroethene	10.0	9.01		ppb v/v		90	68 - 128
Vinyl chloride	10.0	8.29		ppb v/v		83	62 - 125
Xylenes, Total	30.0	26.9		ppb v/v		90	67 - 128

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.
	Added	Result	Qualifier				
Acetone	24	22.7		ug/m ³		96	64 - 136
Benzene	32	29.2		ug/m ³		91	67 - 127
Dichlorobromomethane	67	60.4		ug/m ³		90	69 - 129
Bromoform	100	79.4		ug/m ³		77	34 - 170
Bromomethane	39	35.3		ug/m ³		91	68 - 128
2-Butanone (MEK)	29	27.5		ug/m ³		93	62 - 122
Carbon disulfide	31	33.7		ug/m ³		108	81 - 141
Carbon tetrachloride	63	55.9		ug/m ³		89	62 - 143
Chlorobenzene	46	41.6		ug/m ³		90	68 - 128
Chloroethane	26	24.3		ug/m ³		92	65 - 125
Chloroform	49	44.5		ug/m ³		91	69 - 129
Chloromethane	21	18.2		ug/m ³		88	57 - 126
Chlorodibromomethane	85	74.2		ug/m ³		87	66 - 130
1,1-Dichloroethane	40	36.3		ug/m ³		90	66 - 126
1,2-Dichloroethane	40	36.6		ug/m ³		90	67 - 132
cis-1,2-Dichloroethene	40	34.6		ug/m ³		87	67 - 127
trans-1,2-Dichloroethene	40	37.6		ug/m ³		95	72 - 132
1,1-Dichloroethene	40	34.2		ug/m ³		86	67 - 127
1,2-Dichloropropane	46	42.9		ug/m ³		93	67 - 127
cis-1,3-Dichloropropene	45	42.9		ug/m ³		95	70 - 130
trans-1,3-Dichloropropene	45	41.9		ug/m ³		92	69 - 129
Ethylbenzene	43	39.5		ug/m ³		91	68 - 128
2-Hexanone	41	39.7		ug/m ³		97	61 - 127
Methylene Chloride	35	32.0		ug/m ³		92	62 - 122
4-Methyl-2-pentanone (MIBK)	41	39.1		ug/m ³		95	62 - 130
Styrene	43	40.0		ug/m ³		94	68 - 128
1,1,2,2-Tetrachloroethane	69	62.9		ug/m ³		92	69 - 129
Tetrachloroethene	68	59.5		ug/m ³		88	70 - 130
Toluene	38	34.9		ug/m ³		93	67 - 127

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-124342/3

Matrix: Air

Analysis Batch: 124342

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec.	Limits
1,1,1-Trichloroethane	55	48.4		ug/m3		89	70 - 130
1,1,2-Trichloroethane	55	51.0		ug/m3		94	69 - 129
Trichloroethene	54	48.4		ug/m3		90	68 - 128
Vinyl chloride	26	21.2		ug/m3		83	62 - 125
Xylenes, Total	130	117		ug/m3		90	67 - 128

QC Association Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Air - GC/MS VOA

Analysis Batch: 124342

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-41333-1	SG-TSC-01S	Total/NA	Air	TO-15	1
200-41333-2	SG-TSC-02S	Total/NA	Air	TO-15	2
200-41333-3	SG-TSC-03S	Total/NA	Air	TO-15	3
200-41333-4	SG-TSC-04S	Total/NA	Air	TO-15	4
200-41333-5	SG-TSC-05S	Total/NA	Air	TO-15	5
200-41333-6	SG-TSC-05D	Total/NA	Air	TO-15	6
200-41333-7	SG-TSC-05S-DUP	Total/NA	Air	TO-15	7
200-41333-8	SG-AMB-01S	Total/NA	Air	TO-15	8
200-41333-9	SG-AMB-02S	Total/NA	Air	TO-15	9
200-41333-10	SG-AMB-02D	Total/NA	Air	TO-15	10
200-41333-11	SG-FRSC-01S	Total/NA	Air	TO-15	11
200-41333-12	SG-FRSC-02S	Total/NA	Air	TO-15	12
200-41333-13	SG-FRSC-02D	Total/NA	Air	TO-15	13
MB 200-124342/4	Method Blank	Total/NA	Air	TO-15	14
LCS 200-124342/3	Lab Control Sample	Total/NA	Air	TO-15	15

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-01S

Date Collected: 12/06/17 09:57

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 15:15	K1P	TAL BUR

Client Sample ID: SG-TSC-02S

Date Collected: 12/05/17 15:22

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		19895.1	124342	12/12/17 16:08	K1P	TAL BUR

Client Sample ID: SG-TSC-03S

Date Collected: 12/06/17 09:06

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/13/17 09:55	K1P	TAL BUR

Client Sample ID: SG-TSC-04S

Date Collected: 12/05/17 15:11

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 17:55	K1P	TAL BUR

Client Sample ID: SG-TSC-05S

Date Collected: 12/06/17 10:53

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 18:48	K1P	TAL BUR

Client Sample ID: SG-TSC-05D

Date Collected: 12/07/17 09:49

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 19:41	K1P	TAL BUR

TestAmerica Burlington

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-TSC-05S-DUP

Date Collected: 12/06/17 10:53
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 20:34	K1P	TAL BUR

Client Sample ID: SG-AMB-01S

Date Collected: 12/06/17 14:22
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-8

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 21:27	K1P	TAL BUR

Client Sample ID: SG-AMB-02S

Date Collected: 12/06/17 15:04
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-9

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 22:20	K1P	TAL BUR

Client Sample ID: SG-AMB-02D

Date Collected: 12/06/17 15:38
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-10

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	124342	12/12/17 23:13	K1P	TAL BUR

Client Sample ID: SG-FRSC-01S

Date Collected: 12/06/17 12:48
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-11

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		31.4	124342	12/13/17 00:07	K1P	TAL BUR

Client Sample ID: SG-FRSC-02S

Date Collected: 12/06/17 11:58
Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-12

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		104	124342	12/13/17 10:48	K1P	TAL BUR

TestAmerica Burlington

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Client Sample ID: SG-FRSC-02D

Date Collected: 12/07/17 08:46

Date Received: 12/08/17 10:05

Lab Sample ID: 200-41333-13

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		15.2	124342	12/13/17 01:53	K1P	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-02-18
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-17 *
New Hampshire	NELAP	1	2006	12-18-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-17 *
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-17 *
Virginia	NELAP	3	460209	12-14-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-41333-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-41333-1	SG-TSC-01S	Air	12/06/17 09:57	12/08/17 10:05
200-41333-2	SG-TSC-02S	Air	12/05/17 15:22	12/08/17 10:05
200-41333-3	SG-TSC-03S	Air	12/06/17 09:06	12/08/17 10:05
200-41333-4	SG-TSC-04S	Air	12/05/17 15:11	12/08/17 10:05
200-41333-5	SG-TSC-05S	Air	12/06/17 10:53	12/08/17 10:05
200-41333-6	SG-TSC-05D	Air	12/07/17 09:49	12/08/17 10:05
200-41333-7	SG-TSC-05S-DUP	Air	12/06/17 10:53	12/08/17 10:05
200-41333-8	SG-AMB-01S	Air	12/06/17 14:22	12/08/17 10:05
200-41333-9	SG-AMB-02S	Air	12/06/17 15:04	12/08/17 10:05
200-41333-10	SG-AMB-02D	Air	12/06/17 15:38	12/08/17 10:05
200-41333-11	SG-FRSC-01S	Air	12/06/17 12:48	12/08/17 10:05
200-41333-12	SG-FRSC-02S	Air	12/06/17 11:58	12/08/17 10:05
200-41333-13	SG-FRSC-02D	Air	12/07/17 08:46	12/08/17 10:05

TestAmerica Burlington
30 Community Drive

Sectio 11

South Burlington, VT 05403-6809
Telephone 802.660.1990 fax 802.660.197

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THE LEADER IN ENVIRONMENTAL TESTING

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Form No. CA-C-WI-003, Rev. 2.5, dated 9/22/2017



TestAmerica Burlington
80 Community Drive

S100 11

South Burlington, VT 05403-8809
Phone 802 660.1990 Fax 802 660.1919

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

Canister Samples Chain of Custody Record

South Burlington, VT 05403-8809
Phone 802 660.1990 Fax 802 660.1919

TestAmerica Laboratories, Inc. assumes no liability with respect to the collection and shipment of these samples.

TestAmerica

Client Contact Information		Samples Collected By:		Last						
Company Name:	445 Supply	Client Project Manager:	Nicole Strook	Samples Collected By:						
Address:	3205 Tuckerman	Phone:	42-2-1694							
City/State/Zip:	Calls 0-47221	Email:	nicole@445supply.com							
Phone:		Site Contact:								
FAX:		Tel/Fax								
Project Name:	445-122445	Analysis Turnaround Time								
Site/Location:		Standard (Specific):								
P.O.#		Rush (Specific):								
		Sample Identification	Sample Date(s)	Time Start	Time Stop	Canister Vacuum in Field, 'Hg (Start)	Canister Vacuum in Field, 'Hg (Stop)	Flow Controller ID	Canister ID	Sample Specific Notes:
		SG - PRSC - 015	12/4/13	12:18	12:48	255	5	78.8	6651	Landfill Gas
		SG - PRSC - 025	12/4/13	12:28	1:53	624	7065	235	7	Soil Vapor Extraction (SVE)
		SG - PRSC - 02D	12/9/13	0842	0844	235	18.5	4996	4123	Indoor Air/Ambient Air
										Other (Please specify in notes section)
										(See below for Add'l Items)
										Job / SDG No.: COC No.: 3 of 3 COCs
										For Lab Use Only: Walk-in Client: Lab Sampling:
										Received by: Dated: Received by: Dated: Received by: Dated: Condition:
										Shipped Name: Shipped Date: Opened by: Dated: Condition:
										Special Instructions/QC Requirements & Comments:

Form No. SCA-C-W-007 Rev. 2-A dated 07/22/2017

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(Priority Mail or Air Mail if Necessary)

2000-01-18
2000-01-18

This Label Good for Every Day of the Week!

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 McDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 07DEC17
ACTWTG: 14.45 LB
CAD: 059116/CAFE3108

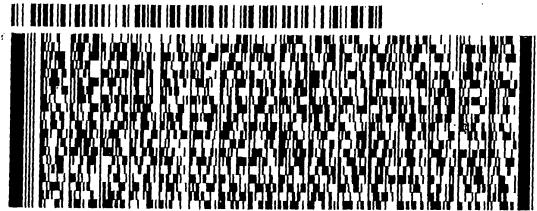
BILL RECIPIENT

TO **SAMPLE RECEIVING**
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
INU:
PO:

REF:

DEPT:



JT71016102001AV

FRI - 08 DEC 3:00P
STANDARD OVERNIGHT

TRK# 4149 3869 2345
0201

05403

VT-US BTV

XH BTVA



ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 07DEC17
ACTWTG: 29.65 LB
CAD: 859116/CAFE3108

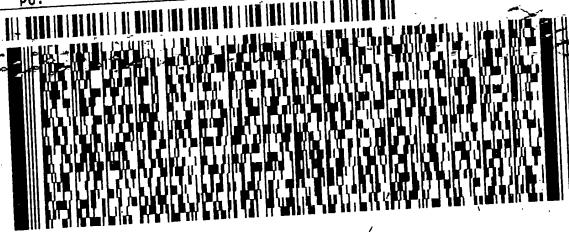
BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

DEPT:



FedEx
Express



J771016102001UV

1 of 3
TRK# 4149 3869 2312
0201

MASTER

XH BTVA

FRI - 08 DEC 3:00P
STANDARD OVERNIGHT

05403
VT-US BTV

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 07DEC17
ACTWTG: 29.65 LB
CAD: 859116/CAFE3108

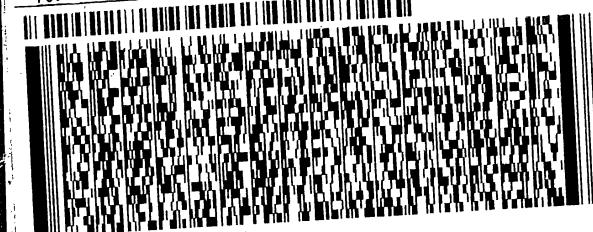
BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990

REF:

DEPT:



FRI - 08 DEC 3:00P
STANDARD OVERNIGHT

05403

BTVA

MPS# 0263 4149 3869 2323
Mstr# 4149 3869 2312

0201

XH BTVA

This Label Good for Every Day of the Week!
P 09/18 ::

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

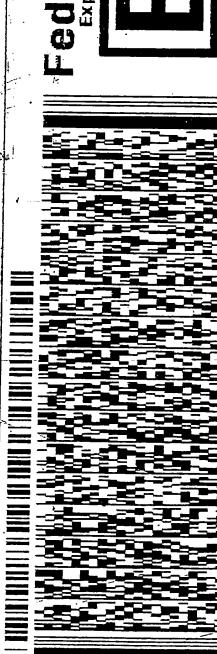
SHIP DATE: 07DEC17
ACTWTG: 29.65 LB
CAD: 859116/CAFE3108

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403

(802) 660-1990
TRK#
PO#

REF:
DEPT:

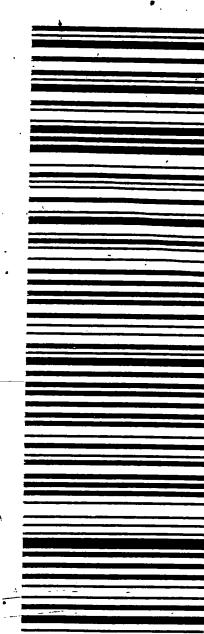


FedEx
Express



FRI - 08 DEC 3:00P
STANDARD OVERNIGHT

05403
VT-US BTV



MPS# 0263 4149 3869 2334
Mstr# 4149 3869 2312

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Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 200-41333-1

Login Number: 41333

List Source: TestAmerica Burlington

List Number: 1

Creator: Deason, Barbara N

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	451203; 202; 200; 201	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True	RWH	
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.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test											
# Cycles		Cleaning Date		Technician		Canister Size		Certification Type:			
Port	Can ID	Initial ¹ (psia)	Final (psia)	Diff. ³	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Gauge:	Date:
1	2700	.05	.05	.00	-29.7	G25	11/15/17	10:33	CE	22	G25
2	3307	.05	.05	.00	-29.7	G25					G25
3	5071	.05	.05	.00	-29.7	G25					G25
4	5704	.19	.14	-.05	-29.7	G25					G25
5	3290	.05	.05	.00	-29.7	G25	11/15/17	11:02	CE	22	G25
6	2945	.05	.05	.00	-29.7	G25	11/15/17	10:35	CE	22	G25
7	3280	.05	.05	.00	-29.7	G25					G25
8	2612	.05	.05	.00	-29.7	G25					G25
9	5162	.05	.05	.00	-29.7	G25					G25
10	4301	.05	.05	.00	-29.7	G25					G25
11	4567	.10	.05	-.05	-29.7	G25					G25
12	4812	.05	.05	.00	-29.7	G25					G25

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization _____ Date: _____

Clean Canister Certification Analysis & Authorization of Release to Inventory			
Test Method: Can ID	Date	Sequence	Analyst
3290	11/15/17	27890	AJ

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).
 Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).
 Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).
 Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).
 Inventory Level Limited: Canisters may only be used for certain projects.



200-40910-A-5

3290

Location: Air-Storage

Bottle: Summa Canister 6L

Sampled: 11/10/2017 12:00 AM 200-1094902

Loc: 200

40910

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Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID		# Cycles		Cleaning Date		Technician		Canister Size		Certification Type:	
Port	Can ID	Bottom Rack	20	11/10/2017	E JE	1L	6L	Individual	Batch		
1	2706	,05	,05	-29.7	G25	/13.17	05	22	G25	11/28.17	12.41
2	5419	,05	,05	-29.7	G25	4	2	22	G25	1	1
3	5003	,05	,05	-29.7	G25	/18.17	1200	ef	G25	11/28.17	12.41
4	4547	,05	,05	-29.7	G25	/13.17	10.55	22	G25	11/28.17	17.41
5	5049	,05	,05		G25				G25		
6	2754				G25				G25		
7	4381				G25				G25		
8	4082				G25				G25		
9	6258				G25				G25		
10	4113				G25				G25		
11	3488				G25				G25		
12	3253				G25				G25		

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ TO15 LL ≤ NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level	Secondary Review
5073	11/15/17	27890	AIS	XXXX	11/15/17 UTP

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLN 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Loc: 200
40912
#3
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Comments:



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40877-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-40877-1

Matrix: Air

Lab File ID: 27829_21.D

Analysis Method: TO-15

Date Collected: 11/09/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/11/2017 03:44

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123199

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40877-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-40877-1

Matrix: Air

Lab File ID: 27829_21.D

Analysis Method: TO-15

Date Collected: 11/09/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/11/2017 03:44

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123199

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40877-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-40877-1

Matrix: Air

Lab File ID: 27829_21.D

Analysis Method: TO-15

Date Collected: 11/09/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/11/2017 03:44

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123199

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHX.i\20171110-27829.b\27829_21.D		
Lims ID:	200-40877-A-1		
Client ID:	4820		
Sample Type:	Client		
Inject. Date:	11-Nov-2017 03:44:30	ALS Bottle#:	21
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0027829-021		
Misc. Info.:	40877-01		
Operator ID:	pad	Instrument ID:	CHX.i
Method:	\ChromNA\Burlington\ChromData\CHX.i\20171110-27829.b\TO15_MasterMethod_X.m.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	13-Nov-2017 10:04:31	Calib Date:	07-Nov-2017 23:53:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHX.i\20171107-27777.b\27777_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK026		

First Level Reviewer: puangmaleek Date: 13-Nov-2017 10:04:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41		3.076				ND	
2 Dichlorodifluoromethane	85		3.140				ND	
3 Chlorodifluoromethane	51		3.188				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.386				ND	
5 Chloromethane	50		3.520				ND	
6 Butane	43		3.702				ND	
7 Vinyl chloride	62		3.745				ND	
8 Butadiene	54		3.814				ND	
10 Bromomethane	94		4.456				ND	
11 Chloroethane	64		4.670				ND	
13 Vinyl bromide	106		5.039				ND	
14 Trichlorodifluoromethane	101		5.125				ND	
17 Ethanol	45	5.692	5.687	0.006	97	2628	0.1577	
20 1,1,2-Trichloro-1,2,2-trif	101		6.147				ND	
21 1,1-Dichloroethene	96		6.195				ND	
22 Acetone	43		6.452				ND	
23 Carbon disulfide	76		6.585				ND	
24 Isopropyl alcohol	45	6.751	6.751	0.016	44	3224	0.0545	7
25 3-Chloro-1-propene	41		6.965				ND	
27 Methylene Chloride	49		7.265				ND	
28 2-Methyl-2-propanol	59		7.505				ND	
29 Methyl tert-butyl ether	73		7.671				ND	
31 trans-1,2-Dichloroethene	61		7.693				ND	
33 Hexane	57		8.062				ND	
34 1,1-Dichloroethane	63		8.575				ND	
35 Vinyl acetate	43		8.656				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
37 cis-1,2-Dichloroethene	96		9.709				ND	
38 2-Butanone (MEK)	72		9.779				ND	
39 Ethyl acetate	88		9.822				ND	
* 40 Chlorobromomethane	128	10.186	10.191	-0.005	95	280161	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
41 Tetrahydrofuran	42		10.212				ND	
42 Chloroform	83		10.330				ND	
43 Cyclohexane	84		10.565				ND	
44 1,1,1-Trichloroethane	97		10.608				ND	
45 Carbon tetrachloride	117		10.865				ND	
46 Isooctane	57		11.314				ND	
47 Benzene	78		11.368				ND	
48 1,2-Dichloroethane	62		11.571				ND	
49 n-Heptane	43		11.732				ND	
* 50 1,4-Difluorobenzene	114	12.261	12.267	-0.006	96	1446924	10.0	
53 Trichloroethene	95		12.759				ND	
54 1,2-Dichloropropane	63		13.358				ND	
55 Methyl methacrylate	69		13.545				ND	
56 1,4-Dioxane	88		13.615				ND	
57 Dibromomethane	174		13.625				ND	
58 Dichlorobromomethane	83		13.941				ND	
60 cis-1,3-Dichloropropene	75		14.920				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.241				ND	
65 Toluene	92		15.530				ND	
66 trans-1,3-Dichloropropene	75		16.172				ND	
67 1,1,2-Trichloroethane	83		16.562				ND	
68 Tetrachloroethene	166		16.653				ND	
69 2-Hexanone	43		17.055				ND	
71 Chlorodibromomethane	129		17.360				ND	
72 Ethylene Dibromide	107		17.643				ND	
* 74 Chlorobenzene-d5	117	18.590	18.590	0.000	90	1239713	10.0	
75 Chlorobenzene	112		18.654				ND	
76 Ethylbenzene	91		18.815				ND	
78 m-Xylene & p-Xylene	106		19.082				ND	
S 73 Xylenes, Total	106		19.600				ND	
79 o-Xylene	106		19.976				ND	
80 Styrene	104		20.040				ND	
81 Bromoform	173		20.505				ND	
82 Isopropylbenzene	105		20.735				ND	
84 1,1,2,2-Tetrachloroethane	83		21.463				ND	
85 N-Propylbenzene	91		21.522				ND	
88 4-Ethyltoluene	105		21.725				ND	
89 2-Chlorotoluene	91		21.730				ND	
90 1,3,5-Trimethylbenzene	105		21.843				ND	
92 tert-Butylbenzene	119		22.362				ND	
93 1,2,4-Trimethylbenzene	105		22.463				ND	
94 sec-Butylbenzene	105		22.704				ND	
95 4-Isopropyltoluene	119		22.918				ND	
96 1,3-Dichlorobenzene	146		22.945				ND	
97 1,4-Dichlorobenzene	146		23.089				ND	
98 Benzyl chloride	91		23.298				ND	
100 n-Butylbenzene	91		23.512				ND	
101 1,2-Dichlorobenzene	146		23.640				ND	
103 1,2,4-Trichlorobenzene	180		26.208				ND	
104 Hexachlorobutadiene	225		26.395				ND	
105 Naphthalene	128		26.705				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

ATTO15XISs_00002

Amount Added: 20.00

Units: mL

Run Reagent

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

Report Date: 13-Nov-2017 10:04:32

Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHX.i\\20171110-27829.b\\27829_21.D

Injection Date: 11-Nov-2017 03:44:30

Instrument ID: CHX.i

Operator ID: pad

Lims ID: 200-40877-A-1

Lab Sample ID: 200-40877-1

Worklist Smp#: 21

Client ID: 4820

Dil. Factor: 0.2000

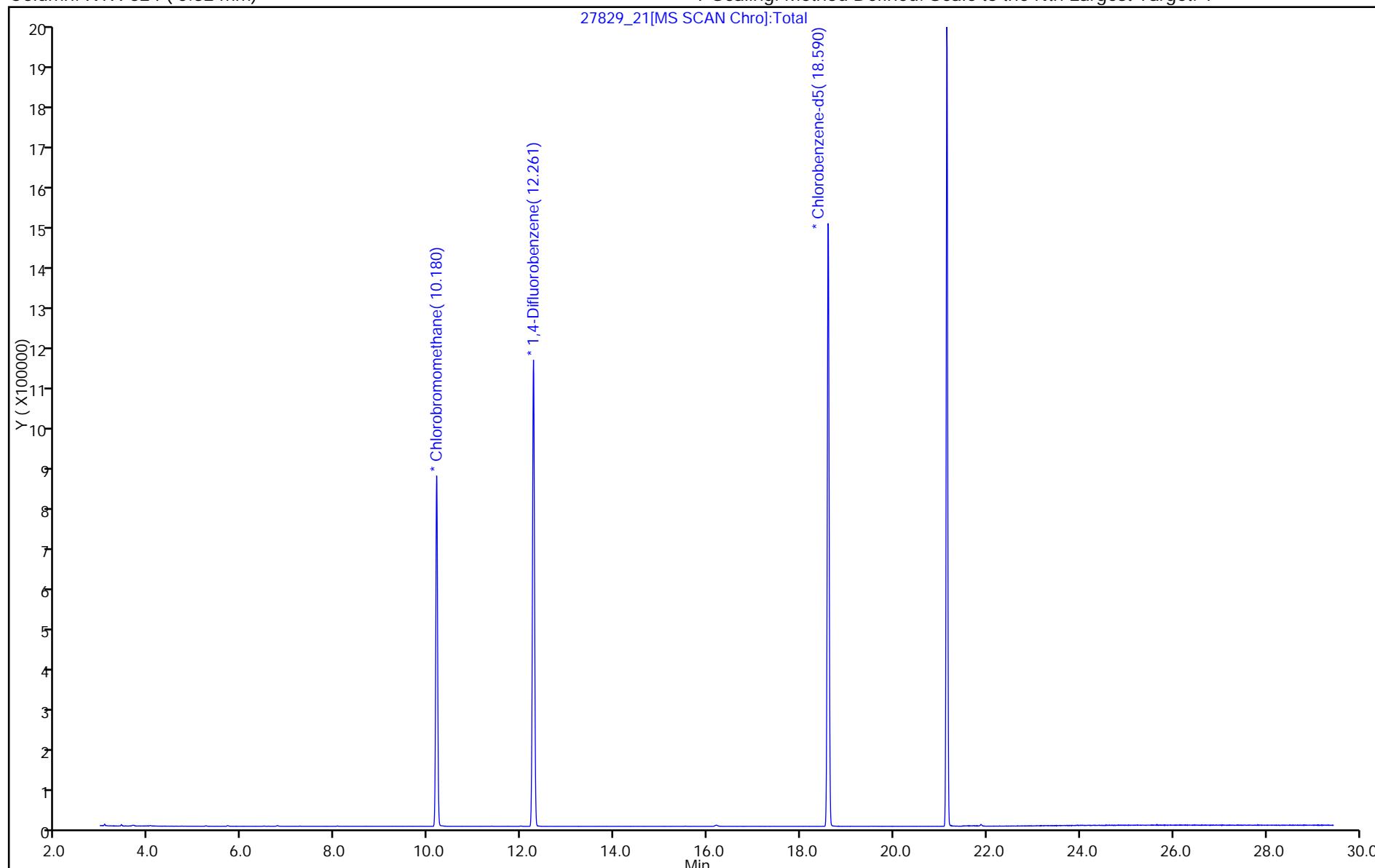
ALS Bottle#: 21

Purge Vol: 200.000 mL

Limit Group: AI_TO15_ICAL

Method: TO15_MasterMethod_X.m
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40910-1

SDG No.: _____

Client Sample ID: 3290

Lab Sample ID: 200-40910-5

Matrix: Air

Lab File ID: 200-27890-018.D

Analysis Method: TO-15

Date Collected: 11/10/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/15/2017 01:22

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123323

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40910-1

SDG No.: _____

Client Sample ID: 3290

Lab Sample ID: 200-40910-5

Matrix: Air

Lab File ID: 200-27890-018.D

Analysis Method: TO-15

Date Collected: 11/10/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/15/2017 01:22

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123323

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U *	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U *	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40910-1
 SDG No.: _____
 Client Sample ID: 3290 Lab Sample ID: 200-40910-5
 Matrix: Air Lab File ID: 200-27890-018.D
 Analysis Method: TO-15 Date Collected: 11/10/2017 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/15/2017 01:22
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 123323 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U *	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171114-27890.b\\200-27890-018.D
 Lims ID: 200-40910-A-5
 Client ID: 3290
 Sample Type: Client
 Inject. Date: 15-Nov-2017 01:22:30 ALS Bottle#: 18 Worklist Smp#: 18
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0027890-018
 Misc. Info.: 40910-05
 Operator ID: vtp Instrument ID: CHG.i
 Method: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171114-27890.b\\TO15_MasterMethod_(v1)_G.m
 Limit Group: AI_TO15_ICAL
 Last Update: 15-Nov-2017 15:50:41 Calib Date: 01-Nov-2017 01:45:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171031-27684.b\\200-27684-012.D
 Column 1: RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK019

First Level Reviewer: bunmaa Date: 15-Nov-2017 15:50:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	3.128					ND	
2 Dichlorodifluoromethane	85	3.181					ND	
3 Chlorodifluoromethane	51	3.219					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.390					ND	
5 Chloromethane	50	3.513					ND	
6 Butane	43	3.663					ND	
7 Vinyl chloride	62	3.700					ND	
8 Butadiene	54	3.759					ND	
10 Bromomethane	94	4.310					ND	
11 Chloroethane	64	4.486					ND	
13 Vinyl bromide	106	4.802					ND	
14 Trichlorodifluoromethane	101	4.877					ND	
17 Ethanol	45	5.348					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	5.749					ND	
21 1,1-Dichloroethene	96	5.813					ND	
22 Acetone	43	6.081	6.081	0.048	84	3257	0.1368	7
23 Carbon disulfide	76	6.177	6.177	0.000	98	1397	0.0230	
24 Isopropyl alcohol	45	6.263					ND	
25 3-Chloro-1-propene	41	6.493					ND	
27 Methylene Chloride	49	6.744					ND	M
28 2-Methyl-2-propanol	59	6.958					ND	
29 Methyl tert-butyl ether	73	7.124					ND	
31 trans-1,2-Dichloroethene	61	7.140					ND	
33 Hexane	57	7.472					ND	
34 1,1-Dichloroethane	63	7.942					ND	
35 Vinyl acetate	43	8.007					ND	
37 cis-1,2-Dichloroethene	96	8.964					ND	
38 2-Butanone (MEK)	72	9.039					ND	
39 Ethyl acetate	88	9.066					ND	
* 40 Chlorobromomethane	128	9.403	9.408	-0.005	77	356532	10.0	
41 Tetrahydrofuran	42	9.451					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.521				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
43 Cyclohexane	84		9.761				ND	
44 1,1,1-Trichloroethane	97		9.793				ND	
45 Carbon tetrachloride	117		10.029				ND	
46 Isooctane	57		10.435				ND	
47 Benzene	78	10.478	10.489	-0.011	84	2592	0.0296	
48 1,2-Dichloroethane	62		10.665				ND	
49 n-Heptane	43		10.810				ND	
* 50 1,4-Difluorobenzene	114	11.297	11.302	-0.005	94	1739646	10.0	
53 Trichloroethene	95		11.762				ND	
54 1,2-Dichloropropane	63		12.318				ND	
55 Methyl methacrylate	69		12.495				ND	
57 Dibromomethane	174	12.570	12.559	0.000	21	473	0.009143	7M
56 1,4-Dioxane	88		12.575				ND	
58 Dichlorobromomethane	83		12.853				ND	
60 cis-1,3-Dichloropropene	75		13.774				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.089				ND	
65 Toluene	92		14.357				ND	
66 trans-1,3-Dichloropropene	75		14.956				ND	
67 1,1,2-Trichloroethane	83		15.325				ND	
68 Tetrachloroethene	166		15.416				ND	
69 2-Hexanone	43		15.812				ND	
71 Chlorodibromomethane	129		16.085				ND	
72 Ethylene Dibromide	107		16.357				ND	
* 74 Chlorobenzene-d5	117	17.256	17.256	0.000	87	1463570	10.0	
75 Chlorobenzene	112		17.315				ND	
76 Ethylbenzene	91		17.476				ND	
78 m-Xylene & p-Xylene	106		17.732				ND	
79 o-Xylene	106		18.583				ND	
80 Styrene	104		18.642				ND	
81 Bromoform	173		19.086				ND	
82 Isopropylbenzene	105		19.321				ND	
S 73 Xylenes, Total	106		19.600				ND	
84 1,1,2,2-Tetrachloroethane	83		20.022				ND	
85 N-Propylbenzene	91		20.092				ND	
89 2-Chlorotoluene	91		20.289				ND	
88 4-Ethyltoluene	105		20.289				ND	
90 1,3,5-Trimethylbenzene	105		20.407				ND	
92 tert-Butylbenzene	119		20.915				ND	
93 1,2,4-Trimethylbenzene	105		21.017				ND	
94 sec-Butylbenzene	105		21.252				ND	
95 4-Isopropyltoluene	119		21.466				ND	
96 1,3-Dichlorobenzene	146		21.482				ND	
97 1,4-Dichlorobenzene	146		21.622				ND	
98 Benzyl chloride	91		21.830				ND	
100 n-Butylbenzene	91		22.044				ND	
101 1,2-Dichlorobenzene	146		22.157				ND	
103 1,2,4-Trichlorobenzene	180		24.601				ND	
104 Hexachlorobutadiene	225		24.783				ND	
105 Naphthalene	128		25.072				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00015

Amount Added: 20.00

Units: mL

Run Reagent

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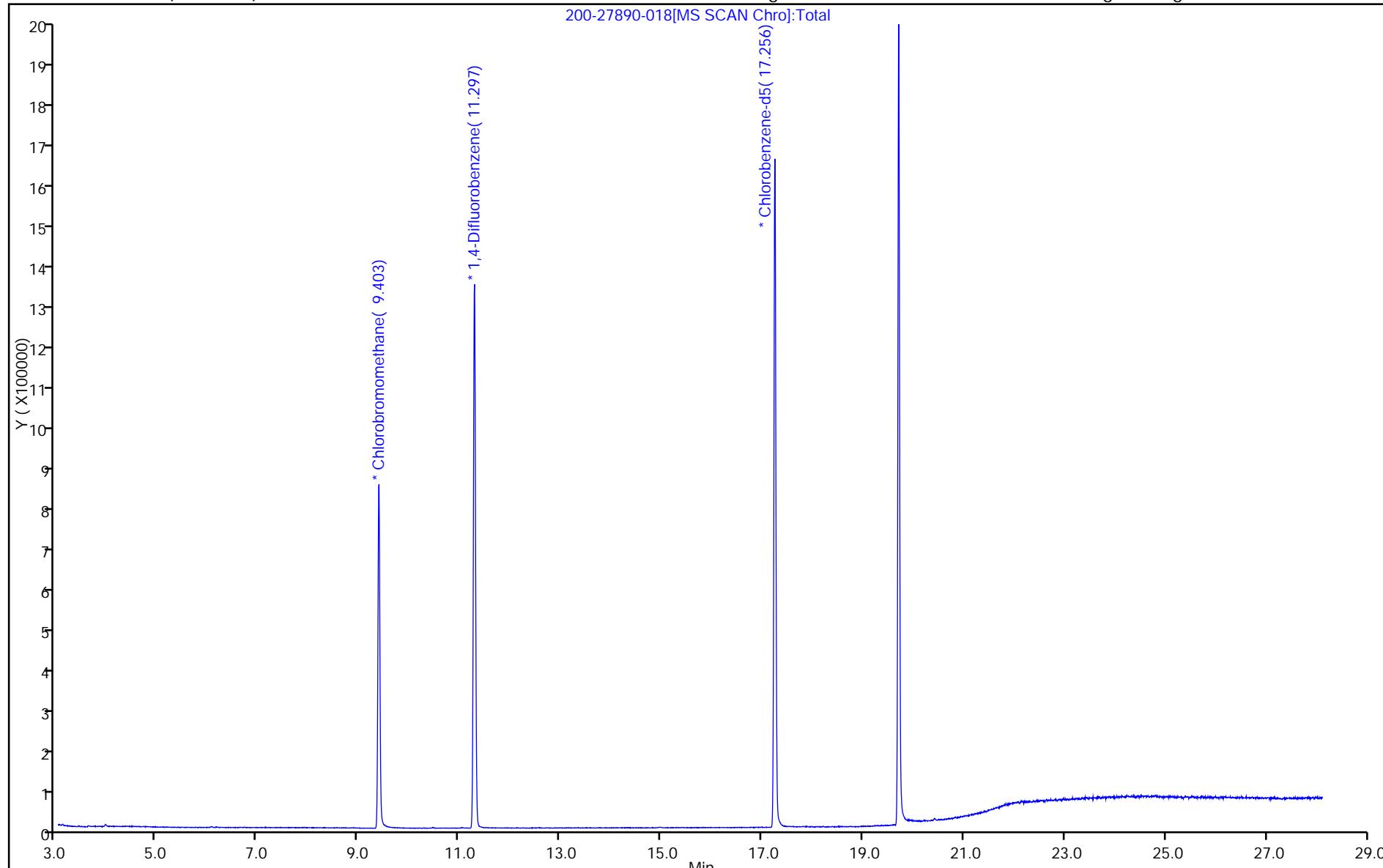
Report Date: 15-Nov-2017 15:50:41

Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171114-27890.b\\200-27890-018.D
Injection Date: 15-Nov-2017 01:22:30 Instrument ID: CHG.i Operator ID: vtp
Lims ID: 200-40910-A-5 Lab Sample ID: 200-40910-5 Worklist Smp#: 18
Client ID: 3290
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 18
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40912-1

SDG No.: _____

Client Sample ID: 5073

Lab Sample ID: 200-40912-3

Matrix: Air

Lab File ID: 200-27890-019.D

Analysis Method: TO-15

Date Collected: 11/10/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/15/2017 02:13

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123323

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-40912-1

SDG No.: _____

Client Sample ID: 5073

Lab Sample ID: 200-40912-3

Matrix: Air

Lab File ID: 200-27890-019.D

Analysis Method: TO-15

Date Collected: 11/10/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 11/15/2017 02:13

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 123323

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U *	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U *	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-40912-1
 SDG No.: _____
 Client Sample ID: 5073 Lab Sample ID: 200-40912-3
 Matrix: Air Lab File ID: 200-27890-019.D
 Analysis Method: TO-15 Date Collected: 11/10/2017 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 11/15/2017 02:13
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 123323 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U *	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHG.i\20171114-27890.b\200-27890-019.D		
Lims ID:	200-40912-A-3		
Client ID:	5073		
Sample Type:	Client		
Inject. Date:	15-Nov-2017 02:13:30	ALS Bottle#:	19
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0027890-019		
Misc. Info.:	40912-03		
Operator ID:	vtp	Instrument ID:	CHG.i
Method:	\ChromNA\Burlington\ChromData\CHG.i\20171114-27890.b\TO15_MasterMethod_(v1)_G.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Nov-2017 15:54:50	Calib Date:	01-Nov-2017 01:45:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHG.i\20171031-27684.b\200-27684-012.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK019		

First Level Reviewer: bunmaa Date: 15-Nov-2017 15:54:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
----------	-----	-----------	---------------	---------------	---	----------	-------------------	-------

1 Propene	41	3.128					ND	
2 Dichlorodifluoromethane	85	3.181					ND	
3 Chlorodifluoromethane	51	3.219					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.390					ND	
5 Chloromethane	50	3.518	3.513	0.005	96	1908	0.0894	
6 Butane	43	3.663					ND	
7 Vinyl chloride	62	3.700					ND	
8 Butadiene	54	3.759					ND	
10 Bromomethane	94	4.310					ND	
11 Chloroethane	64	4.486					ND	
13 Vinyl bromide	106	4.802					ND	
14 Trichlorodifluoromethane	101	4.877					ND	
17 Ethanol	45	5.348					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	5.749					ND	
21 1,1-Dichloroethene	96	5.813					ND	
22 Acetone	43	6.059	6.059	0.026	23	2652	0.1023	7
23 Carbon disulfide	76	6.166	6.177	-0.011	94	2905	0.0440	
24 Isopropyl alcohol	45	6.263					ND	
25 3-Chloro-1-propene	41	6.493					ND	
27 Methylene Chloride	49	6.744					ND	
28 2-Methyl-2-propanol	59	6.958					ND	
29 Methyl tert-butyl ether	73	7.124					ND	
31 trans-1,2-Dichloroethene	61	7.140					ND	
33 Hexane	57	7.472					ND	
34 1,1-Dichloroethane	63	7.942					ND	
35 Vinyl acetate	43	8.007					ND	
37 cis-1,2-Dichloroethene	96	8.964					ND	
38 2-Butanone (MEK)	72	9.039					ND	
39 Ethyl acetate	88	9.066					ND	
* 40 Chlorobromomethane	128	9.398	9.408	-0.010	76	388115	10.0	
41 Tetrahydrofuran	42	9.451					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.521				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
43 Cyclohexane	84		9.761				ND	
44 1,1,1-Trichloroethane	97		9.793				ND	
45 Carbon tetrachloride	117		10.029				ND	
46 Isooctane	57		10.435				ND	
47 Benzene	78	10.478	10.467	-0.011	92	2800	0.0283	M
48 1,2-Dichloroethane	62		10.665				ND	
49 n-Heptane	43		10.810				ND	
* 50 1,4-Difluorobenzene	114	11.297	11.302	-0.005	94	1964292	10.0	
53 Trichloroethene	95		11.762				ND	
54 1,2-Dichloropropane	63		12.318				ND	
55 Methyl methacrylate	69		12.495				ND	
57 Dibromomethane	174	12.554	12.565	-0.016	18	754	0.0129	M
56 1,4-Dioxane	88		12.575				ND	
58 Dichlorobromomethane	83		12.853				ND	
60 cis-1,3-Dichloropropene	75		13.774				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.089				ND	
65 Toluene	92		14.357				ND	
66 trans-1,3-Dichloropropene	75		14.956				ND	
67 1,1,2-Trichloroethane	83		15.325				ND	
68 Tetrachloroethene	166		15.416				ND	
69 2-Hexanone	43		15.812				ND	
71 Chlorodibromomethane	129		16.085				ND	
72 Ethylene Dibromide	107		16.357				ND	
* 74 Chlorobenzene-d5	117	17.251	17.256	-0.005	87	1658390	10.0	
75 Chlorobenzene	112		17.315				ND	
76 Ethylbenzene	91		17.476				ND	
78 m-Xylene & p-Xylene	106		17.732				ND	
79 o-Xylene	106		18.583				ND	
80 Styrene	104		18.642				ND	
81 Bromoform	173		19.086				ND	
82 Isopropylbenzene	105		19.321				ND	
S 73 Xylenes, Total	106		19.600				ND	
84 1,1,2,2-Tetrachloroethane	83		20.022				ND	
85 N-Propylbenzene	91		20.092				ND	
89 2-Chlorotoluene	91		20.289				ND	
88 4-Ethyltoluene	105		20.289				ND	
90 1,3,5-Trimethylbenzene	105		20.407				ND	
92 tert-Butylbenzene	119		20.915				ND	
93 1,2,4-Trimethylbenzene	105		21.017				ND	
94 sec-Butylbenzene	105		21.252				ND	
95 4-Isopropyltoluene	119		21.466				ND	
96 1,3-Dichlorobenzene	146		21.482				ND	
97 1,4-Dichlorobenzene	146		21.622				ND	
98 Benzyl chloride	91		21.830				ND	
100 n-Butylbenzene	91		22.044				ND	
101 1,2-Dichlorobenzene	146		22.157				ND	
103 1,2,4-Trichlorobenzene	180		24.601				ND	
104 Hexachlorobutadiene	225		24.783				ND	
105 Naphthalene	128		25.072				ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00015

Amount Added: 20.00

Units: mL

Run Reagent

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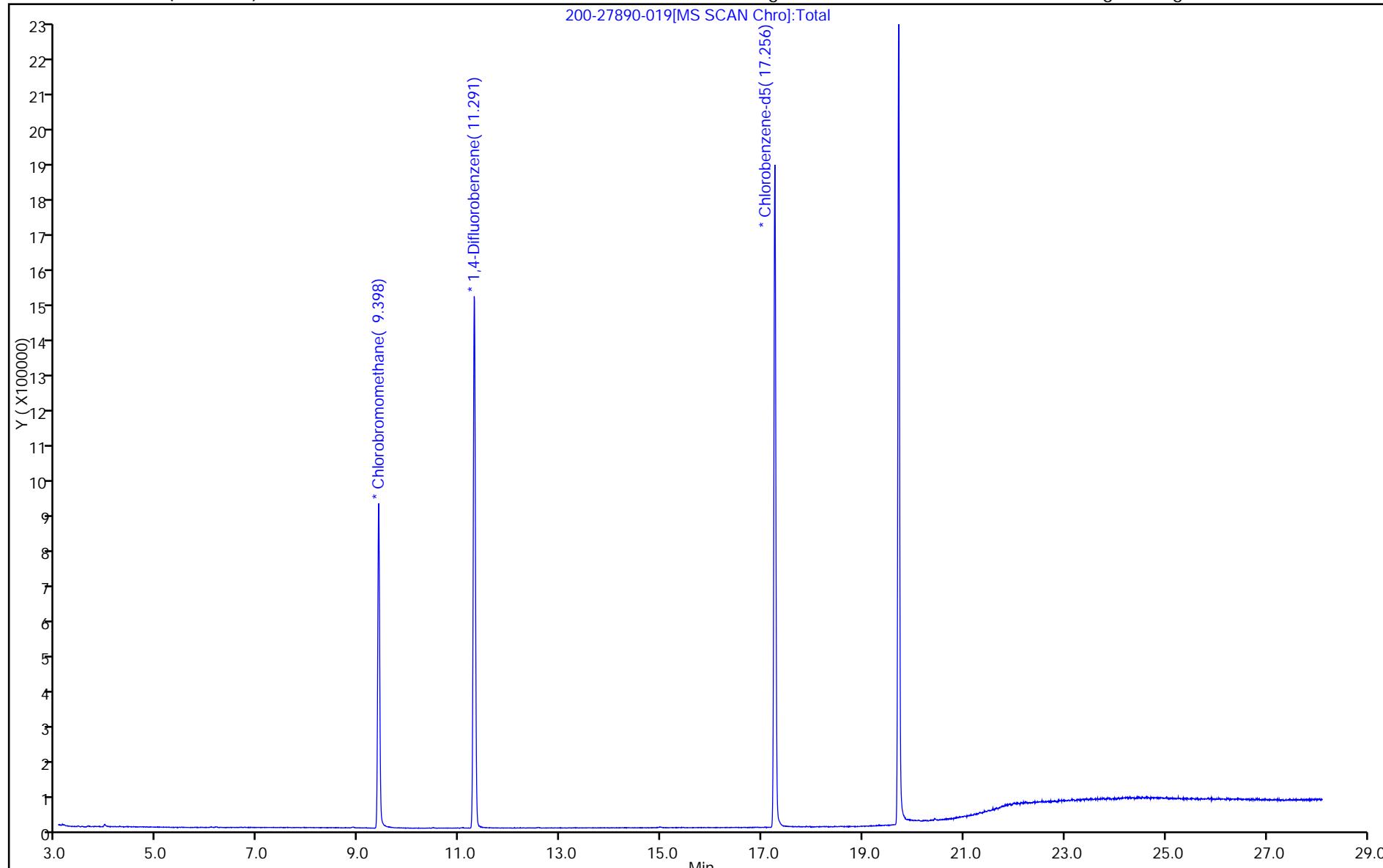
Report Date: 15-Nov-2017 15:54:50

Chrom Revision: 2.2 28-Sep-2017 09:29:16

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171114-27890.b\\200-27890-019.D
Injection Date: 15-Nov-2017 02:13:30 Instrument ID: CHG.i Operator ID: vtp
Lims ID: 200-40912-A-3 Lab Sample ID: 200-40912-3 Worklist Smp#: 19
Client ID: 5073
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 19
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

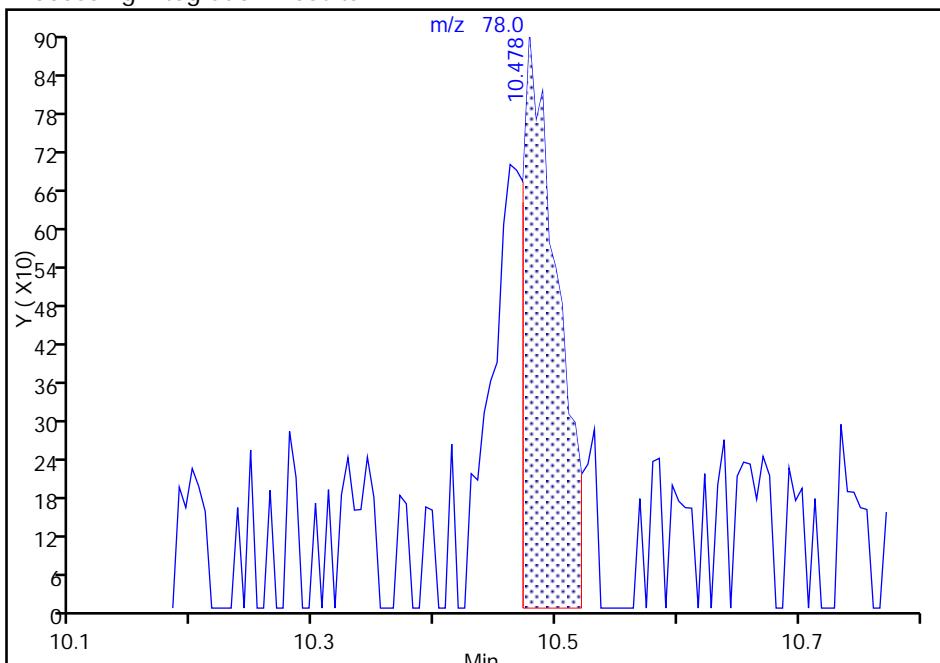
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 Injection Date: 15-Nov-2017 02:13:30 Instrument ID: CHG.i
 Lims ID: 200-40912-A-3 Lab Sample ID: 200-40912-3
 Client ID: 5073
 Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 1

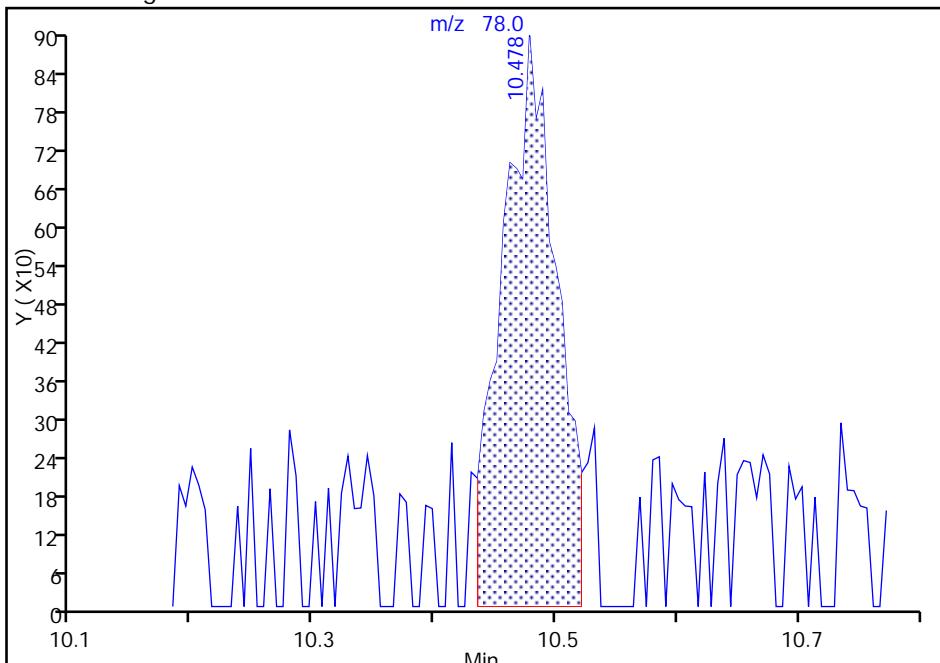
RT: 10.48
 Area: 1767
 Amount: 0.017880
 Amount Units: ppb v/v

Processing Integration Results



RT: 10.48
 Area: 2800
 Amount: 0.028333
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 15-Nov-2017 15:52:44

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

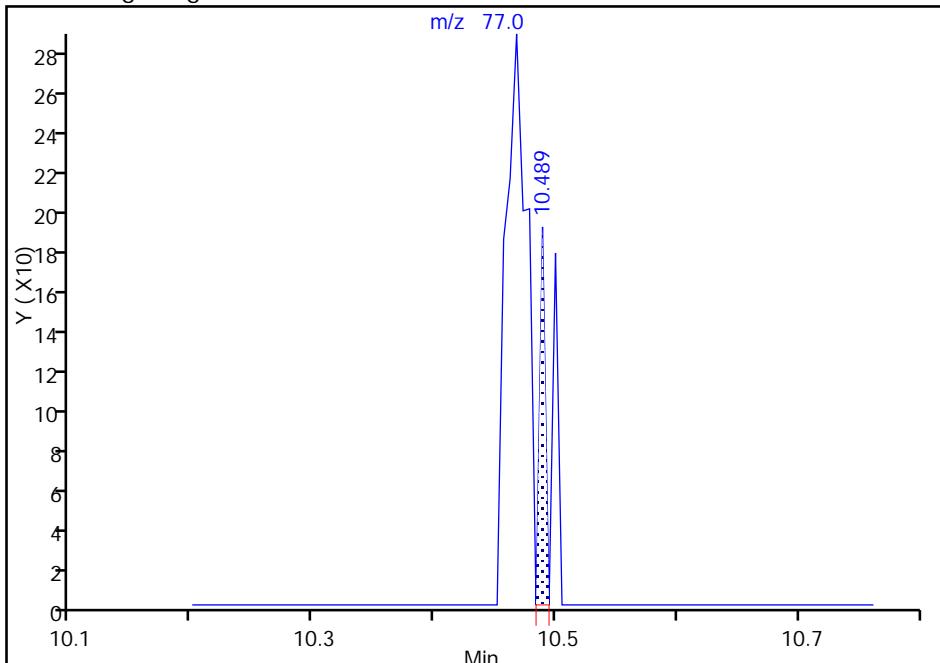
Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171114-27890.b\\200-27890-019.D
 Injection Date: 15-Nov-2017 02:13:30 Instrument ID: CHG.i
 Lims ID: 200-40912-A-3 Lab Sample ID: 200-40912-3
 Client ID: 5073
 Operator ID: vtp ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 2

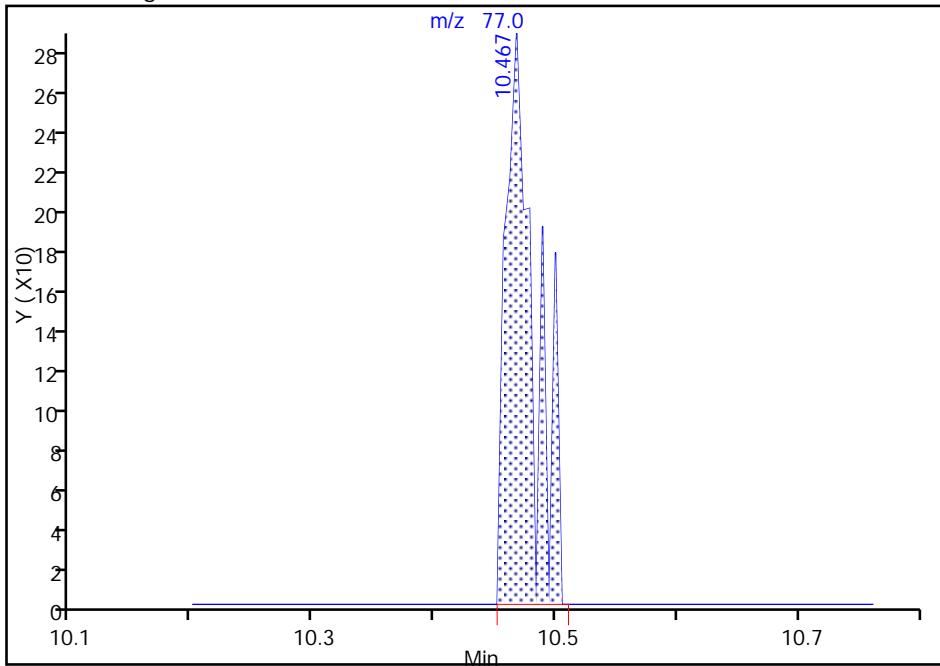
RT: 10.49
 Area: 60
 Amount: 0.017880
 Amount Units: ppb v/v

Processing Integration Results



RT: 10.47
 Area: 460
 Amount: 0.028333
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 15-Nov-2017 15:52:54

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-42110-1

Client Project/Site: Ashland Alterman (Jonesboro)

For:

EHS Support, LLC

228 4th Avenue

Decatur, Georgia 30033

Attn: Kris Spikes



Authorized for release by:

2/8/2018 1:24:46 PM

Jerry Lanier, Project Manager I

(912)354-7858 e.3410

jerry.lanier@testamericainc.com

LINKS

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results through

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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.

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Definitions/Glossary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Job ID: 200-42110-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 200-42110-1

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 02/02/2018; the samples arrived in good condition.

VOLATILE ORGANIC COMPOUNDS

Samples SG-FRSC-02S-C (200-42110-1), SG-FRSC-02D-C (200-42110-2) and SG-TSC-02S-C (200-42110-3) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 02/05/2018.

Samples SG-FRSC-02S-C (200-42110-1)[139.3X], SG-FRSC-02D-C (200-42110-2)[207X] and SG-TSC-02S-C (200-42110-3)[12181X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02S-C

Lab Sample ID: 200-42110-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2100		28		ppb v/v	139.3		TO-15	Total/NA
Trichloroethene	71		28		ppb v/v	139.3		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	14000		190		ug/m3	139.3		TO-15	Total/NA
Trichloroethene	380		150		ug/m3	139.3		TO-15	Total/NA

Client Sample ID: SG-FRSC-02D-C

Lab Sample ID: 200-42110-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	3000		41		ppb v/v	207		TO-15	Total/NA
Trichloroethene	130		41		ppb v/v	207		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	20000		280		ug/m3	207		TO-15	Total/NA
Trichloroethene	680		220		ug/m3	207		TO-15	Total/NA

Client Sample ID: SG-TSC-02S-C

Lab Sample ID: 200-42110-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	150000		2400		ppb v/v	12181		TO-15	Total/NA
Trichloroethene	12000		2400		ppb v/v	12181		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1000000		17000		ug/m3	12181		TO-15	Total/NA
Trichloroethene	67000		13000		ug/m3	12181		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02S-C

Date Collected: 01/31/18 11:43

Date Received: 02/02/18 10:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<700		700		ppb v/v			02/05/18 20:45	139.3
Benzene	<28		28		ppb v/v			02/05/18 20:45	139.3
Dichlorobromomethane	<28		28		ppb v/v			02/05/18 20:45	139.3
Bromoform	<28		28		ppb v/v			02/05/18 20:45	139.3
Bromomethane	<28		28		ppb v/v			02/05/18 20:45	139.3
2-Butanone (MEK)	<70		70		ppb v/v			02/05/18 20:45	139.3
Carbon disulfide	<70		70		ppb v/v			02/05/18 20:45	139.3
Carbon tetrachloride	<28		28		ppb v/v			02/05/18 20:45	139.3
Chlorobenzene	<28		28		ppb v/v			02/05/18 20:45	139.3
Chloroethane	<70		70		ppb v/v			02/05/18 20:45	139.3
Chloroform	<28		28		ppb v/v			02/05/18 20:45	139.3
Chloromethane	<70		70		ppb v/v			02/05/18 20:45	139.3
Chlorodibromomethane	<28		28		ppb v/v			02/05/18 20:45	139.3
1,1-Dichloroethane	<28		28		ppb v/v			02/05/18 20:45	139.3
1,2-Dichloroethane	<28		28		ppb v/v			02/05/18 20:45	139.3
cis-1,2-Dichloroethene	<28		28		ppb v/v			02/05/18 20:45	139.3
trans-1,2-Dichloroethene	<28		28		ppb v/v			02/05/18 20:45	139.3
1,1-Dichloroethene	<28		28		ppb v/v			02/05/18 20:45	139.3
1,2-Dichloropropane	<28		28		ppb v/v			02/05/18 20:45	139.3
cis-1,3-Dichloropropene	<28		28		ppb v/v			02/05/18 20:45	139.3
trans-1,3-Dichloropropene	<28		28		ppb v/v			02/05/18 20:45	139.3
Ethylbenzene	<28		28		ppb v/v			02/05/18 20:45	139.3
2-Hexanone	<70		70		ppb v/v			02/05/18 20:45	139.3
Methylene Chloride	<70		70		ppb v/v			02/05/18 20:45	139.3
4-Methyl-2-pentanone (MIBK)	<70		70		ppb v/v			02/05/18 20:45	139.3
Styrene	<28		28		ppb v/v			02/05/18 20:45	139.3
1,1,2,2-Tetrachloroethane	<28		28		ppb v/v			02/05/18 20:45	139.3
Tetrachloroethene	2100		28		ppb v/v			02/05/18 20:45	139.3
Toluene	<28		28		ppb v/v			02/05/18 20:45	139.3
1,1,1-Trichloroethane	<28		28		ppb v/v			02/05/18 20:45	139.3
1,1,2-Trichloroethane	<28		28		ppb v/v			02/05/18 20:45	139.3
Trichloroethene	71		28		ppb v/v			02/05/18 20:45	139.3
Vinyl chloride	<28		28		ppb v/v			02/05/18 20:45	139.3
Xylenes, Total	<98		98		ppb v/v			02/05/18 20:45	139.3
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1700		1700		ug/m3			02/05/18 20:45	139.3
Benzene	<89		89		ug/m3			02/05/18 20:45	139.3
Dichlorobromomethane	<190		190		ug/m3			02/05/18 20:45	139.3
Bromoform	<290		290		ug/m3			02/05/18 20:45	139.3
Bromomethane	<110		110		ug/m3			02/05/18 20:45	139.3
2-Butanone (MEK)	<210		210		ug/m3			02/05/18 20:45	139.3
Carbon disulfide	<220		220		ug/m3			02/05/18 20:45	139.3
Carbon tetrachloride	<180		180		ug/m3			02/05/18 20:45	139.3
Chlorobenzene	<130		130		ug/m3			02/05/18 20:45	139.3
Chloroethane	<180		180		ug/m3			02/05/18 20:45	139.3
Chloroform	<140		140		ug/m3			02/05/18 20:45	139.3
Chloromethane	<140		140		ug/m3			02/05/18 20:45	139.3
Chlorodibromomethane	<240		240		ug/m3			02/05/18 20:45	139.3

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02S-C
Date Collected: 01/31/18 11:43
Date Received: 02/02/18 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<110		110		ug/m3			02/05/18 20:45	139.3
1,2-Dichloroethane	<110		110		ug/m3			02/05/18 20:45	139.3
cis-1,2-Dichloroethene	<110		110		ug/m3			02/05/18 20:45	139.3
trans-1,2-Dichloroethene	<110		110		ug/m3			02/05/18 20:45	139.3
1,1-Dichloroethene	<110		110		ug/m3			02/05/18 20:45	139.3
1,2-Dichloropropane	<130		130		ug/m3			02/05/18 20:45	139.3
cis-1,3-Dichloropropene	<130		130		ug/m3			02/05/18 20:45	139.3
trans-1,3-Dichloropropene	<130		130		ug/m3			02/05/18 20:45	139.3
Ethylbenzene	<120		120		ug/m3			02/05/18 20:45	139.3
2-Hexanone	<290		290		ug/m3			02/05/18 20:45	139.3
Methylene Chloride	<240		240		ug/m3			02/05/18 20:45	139.3
4-Methyl-2-pentanone (MIBK)	<290		290		ug/m3			02/05/18 20:45	139.3
Styrene	<120		120		ug/m3			02/05/18 20:45	139.3
1,1,2,2-Tetrachloroethane	<190		190		ug/m3			02/05/18 20:45	139.3
Tetrachloroethene	14000		190		ug/m3			02/05/18 20:45	139.3
Toluene	<100		100		ug/m3			02/05/18 20:45	139.3
1,1,1-Trichloroethane	<150		150		ug/m3			02/05/18 20:45	139.3
1,1,2-Trichloroethane	<150		150		ug/m3			02/05/18 20:45	139.3
Trichloroethene	380		150		ug/m3			02/05/18 20:45	139.3
Vinyl chloride	<71		71		ug/m3			02/05/18 20:45	139.3
Xylenes, Total	<420		420		ug/m3			02/05/18 20:45	139.3

Client Sample ID: SG-FRSC-02D-C

Date Collected: 01/31/18 12:20
Date Received: 02/02/18 10:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1000		1000		ppb v/v			02/05/18 21:36	207
Benzene	<41		41		ppb v/v			02/05/18 21:36	207
Dichlorobromomethane	<41		41		ppb v/v			02/05/18 21:36	207
Bromoform	<41		41		ppb v/v			02/05/18 21:36	207
Bromomethane	<41		41		ppb v/v			02/05/18 21:36	207
2-Butanone (MEK)	<100		100		ppb v/v			02/05/18 21:36	207
Carbon disulfide	<100		100		ppb v/v			02/05/18 21:36	207
Carbon tetrachloride	<41		41		ppb v/v			02/05/18 21:36	207
Chlorobenzene	<41		41		ppb v/v			02/05/18 21:36	207
Chloroethane	<100		100		ppb v/v			02/05/18 21:36	207
Chloroform	<41		41		ppb v/v			02/05/18 21:36	207
Chloromethane	<100		100		ppb v/v			02/05/18 21:36	207
Chlorodibromomethane	<41		41		ppb v/v			02/05/18 21:36	207
1,1-Dichloroethane	<41		41		ppb v/v			02/05/18 21:36	207
1,2-Dichloroethane	<41		41		ppb v/v			02/05/18 21:36	207
cis-1,2-Dichloroethene	<41		41		ppb v/v			02/05/18 21:36	207
trans-1,2-Dichloroethene	<41		41		ppb v/v			02/05/18 21:36	207
1,1-Dichloroethene	<41		41		ppb v/v			02/05/18 21:36	207
1,2-Dichloropropane	<41		41		ppb v/v			02/05/18 21:36	207
cis-1,3-Dichloropropene	<41		41		ppb v/v			02/05/18 21:36	207

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02D-C

Date Collected: 01/31/18 12:20

Date Received: 02/02/18 10:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<41		41		ppb v/v			02/05/18 21:36	207
Ethylbenzene	<41		41		ppb v/v			02/05/18 21:36	207
2-Hexanone	<100		100		ppb v/v			02/05/18 21:36	207
Methylene Chloride	<100		100		ppb v/v			02/05/18 21:36	207
4-Methyl-2-pentanone (MIBK)	<100		100		ppb v/v			02/05/18 21:36	207
Styrene	<41		41		ppb v/v			02/05/18 21:36	207
1,1,2,2-Tetrachloroethane	<41		41		ppb v/v			02/05/18 21:36	207
Tetrachloroethene	3000		41		ppb v/v			02/05/18 21:36	207
Toluene	<41		41		ppb v/v			02/05/18 21:36	207
1,1,1-Trichloroethane	<41		41		ppb v/v			02/05/18 21:36	207
1,1,2-Trichloroethane	<41		41		ppb v/v			02/05/18 21:36	207
Trichloroethene	130		41		ppb v/v			02/05/18 21:36	207
Vinyl chloride	<41		41		ppb v/v			02/05/18 21:36	207
Xylenes, Total	<140		140		ppb v/v			02/05/18 21:36	207
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2500		2500		ug/m ³			02/05/18 21:36	207
Benzene	<130		130		ug/m ³			02/05/18 21:36	207
Dichlorobromomethane	<280		280		ug/m ³			02/05/18 21:36	207
Bromoform	<430		430		ug/m ³			02/05/18 21:36	207
Bromomethane	<160		160		ug/m ³			02/05/18 21:36	207
2-Butanone (MEK)	<310		310		ug/m ³			02/05/18 21:36	207
Carbon disulfide	<320		320		ug/m ³			02/05/18 21:36	207
Carbon tetrachloride	<260		260		ug/m ³			02/05/18 21:36	207
Chlorobenzene	<190		190		ug/m ³			02/05/18 21:36	207
Chloroethane	<270		270		ug/m ³			02/05/18 21:36	207
Chloroform	<200		200		ug/m ³			02/05/18 21:36	207
Chloromethane	<210		210		ug/m ³			02/05/18 21:36	207
Chlorodibromomethane	<350		350		ug/m ³			02/05/18 21:36	207
1,1-Dichloroethane	<170		170		ug/m ³			02/05/18 21:36	207
1,2-Dichloroethane	<170		170		ug/m ³			02/05/18 21:36	207
cis-1,2-Dichloroethene	<160		160		ug/m ³			02/05/18 21:36	207
trans-1,2-Dichloroethene	<160		160		ug/m ³			02/05/18 21:36	207
1,1-Dichloroethene	<160		160		ug/m ³			02/05/18 21:36	207
1,2-Dichloropropane	<190		190		ug/m ³			02/05/18 21:36	207
cis-1,3-Dichloropropene	<190		190		ug/m ³			02/05/18 21:36	207
trans-1,3-Dichloropropene	<190		190		ug/m ³			02/05/18 21:36	207
Ethylbenzene	<180		180		ug/m ³			02/05/18 21:36	207
2-Hexanone	<420		420		ug/m ³			02/05/18 21:36	207
Methylene Chloride	<360		360		ug/m ³			02/05/18 21:36	207
4-Methyl-2-pentanone (MIBK)	<420		420		ug/m ³			02/05/18 21:36	207
Styrene	<180		180		ug/m ³			02/05/18 21:36	207
1,1,2,2-Tetrachloroethane	<280		280		ug/m ³			02/05/18 21:36	207
Tetrachloroethene	20000		280		ug/m ³			02/05/18 21:36	207
Toluene	<160		160		ug/m ³			02/05/18 21:36	207
1,1,1-Trichloroethane	<230		230		ug/m ³			02/05/18 21:36	207
1,1,2-Trichloroethane	<230		230		ug/m ³			02/05/18 21:36	207
Trichloroethene	680		220		ug/m ³			02/05/18 21:36	207
Vinyl chloride	<110		110		ug/m ³			02/05/18 21:36	207

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02D-C
Date Collected: 01/31/18 12:20
Date Received: 02/02/18 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-2
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	<630		630		ug/m ³			02/05/18 21:36	207

Client Sample ID: SG-TSC-02S-C
Date Collected: 01/31/18 12:50
Date Received: 02/02/18 10:30
Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-3
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<61000		61000		ppb v/v			02/05/18 22:27	12181
Benzene	<2400		2400		ppb v/v			02/05/18 22:27	12181
Dichlorobromomethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
Bromoform	<2400		2400		ppb v/v			02/05/18 22:27	12181
Bromomethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
2-Butanone (MEK)	<6100		6100		ppb v/v			02/05/18 22:27	12181
Carbon disulfide	<6100		6100		ppb v/v			02/05/18 22:27	12181
Carbon tetrachloride	<2400		2400		ppb v/v			02/05/18 22:27	12181
Chlorobenzene	<2400		2400		ppb v/v			02/05/18 22:27	12181
Chloroethane	<6100		6100		ppb v/v			02/05/18 22:27	12181
Chloroform	<2400		2400		ppb v/v			02/05/18 22:27	12181
Chloromethane	<6100		6100		ppb v/v			02/05/18 22:27	12181
Chlorodibromomethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,1-Dichloroethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,2-Dichloroethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
cis-1,2-Dichloroethene	<2400		2400		ppb v/v			02/05/18 22:27	12181
trans-1,2-Dichloroethene	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,1-Dichloroethene	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,2-Dichloropropane	<2400		2400		ppb v/v			02/05/18 22:27	12181
cis-1,3-Dichloropropene	<2400		2400		ppb v/v			02/05/18 22:27	12181
trans-1,3-Dichloropropene	<2400		2400		ppb v/v			02/05/18 22:27	12181
Ethylbenzene	<2400		2400		ppb v/v			02/05/18 22:27	12181
2-Hexanone	<6100		6100		ppb v/v			02/05/18 22:27	12181
Methylene Chloride	<6100		6100		ppb v/v			02/05/18 22:27	12181
4-Methyl-2-pentanone (MIBK)	<6100		6100		ppb v/v			02/05/18 22:27	12181
Styrene	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,1,2,2-Tetrachloroethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
Tetrachloroethene	150000		2400		ppb v/v			02/05/18 22:27	12181
Toluene	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,1,1-Trichloroethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
1,1,2-Trichloroethane	<2400		2400		ppb v/v			02/05/18 22:27	12181
Trichloroethene	12000		2400		ppb v/v			02/05/18 22:27	12181
Vinyl chloride	<2400		2400		ppb v/v			02/05/18 22:27	12181
Xylenes, Total	<8500		8500		ppb v/v			02/05/18 22:27	12181

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<140000		140000		ug/m ³			02/05/18 22:27	12181
Benzene	<7800		7800		ug/m ³			02/05/18 22:27	12181
Dichlorobromomethane	<16000		16000		ug/m ³			02/05/18 22:27	12181
Bromoform	<25000		25000		ug/m ³			02/05/18 22:27	12181

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-TSC-02S-C

Date Collected: 01/31/18 12:50

Date Received: 02/02/18 10:30

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42110-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<9500		9500		ug/m ³			02/05/18 22:27	12181
2-Butanone (MEK)	<18000		18000		ug/m ³			02/05/18 22:27	12181
Carbon disulfide	<19000		19000		ug/m ³			02/05/18 22:27	12181
Carbon tetrachloride	<15000		15000		ug/m ³			02/05/18 22:27	12181
Chlorobenzene	<11000		11000		ug/m ³			02/05/18 22:27	12181
Chloroethane	<16000		16000		ug/m ³			02/05/18 22:27	12181
Chloroform	<12000		12000		ug/m ³			02/05/18 22:27	12181
Chloromethane	<13000		13000		ug/m ³			02/05/18 22:27	12181
Chlorodibromomethane	<21000		21000		ug/m ³			02/05/18 22:27	12181
1,1-Dichloroethane	<9900		9900		ug/m ³			02/05/18 22:27	12181
1,2-Dichloroethane	<9900		9900		ug/m ³			02/05/18 22:27	12181
cis-1,2-Dichloroethene	<9700		9700		ug/m ³			02/05/18 22:27	12181
trans-1,2-Dichloroethene	<9700		9700		ug/m ³			02/05/18 22:27	12181
1,1-Dichloroethene	<9700		9700		ug/m ³			02/05/18 22:27	12181
1,2-Dichloropropane	<11000		11000		ug/m ³			02/05/18 22:27	12181
cis-1,3-Dichloropropene	<11000		11000		ug/m ³			02/05/18 22:27	12181
trans-1,3-Dichloropropene	<11000		11000		ug/m ³			02/05/18 22:27	12181
Ethylbenzene	<11000		11000		ug/m ³			02/05/18 22:27	12181
2-Hexanone	<25000		25000		ug/m ³			02/05/18 22:27	12181
Methylene Chloride	<21000		21000		ug/m ³			02/05/18 22:27	12181
4-Methyl-2-pentanone (MIBK)	<25000		25000		ug/m ³			02/05/18 22:27	12181
Styrene	<10000		10000		ug/m ³			02/05/18 22:27	12181
1,1,2,2-Tetrachloroethane	<17000		17000		ug/m ³			02/05/18 22:27	12181
Tetrachloroethene	1000000		17000		ug/m ³			02/05/18 22:27	12181
Toluene	<9200		9200		ug/m ³			02/05/18 22:27	12181
1,1,1-Trichloroethane	<13000		13000		ug/m ³			02/05/18 22:27	12181
1,1,2-Trichloroethane	<13000		13000		ug/m ³			02/05/18 22:27	12181
Trichloroethene	67000		13000		ug/m ³			02/05/18 22:27	12181
Vinyl chloride	<6200		6200		ug/m ³			02/05/18 22:27	12181
Xylenes, Total	<37000		37000		ug/m ³			02/05/18 22:27	12181

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-126114/4

Matrix: Air

Analysis Batch: 126114

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			02/05/18 13:10	1
Benzene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Bromoform	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Bromomethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Carbon disulfide	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Chlorobenzene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Chloroethane	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Chloroform	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Chloromethane	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Ethylbenzene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
2-Hexanone	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Methylene Chloride	<0.50		0.50		ppb v/v			02/05/18 13:10	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			02/05/18 13:10	1
Styrene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Tetrachloroethene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Toluene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Trichloroethene	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Vinyl chloride	<0.20		0.20		ppb v/v			02/05/18 13:10	1
Xylenes, Total	<0.70		0.70		ppb v/v			02/05/18 13:10	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m3			02/05/18 13:10	1
Benzene	<0.64		0.64		ug/m3			02/05/18 13:10	1
Dichlorobromomethane	<1.3		1.3		ug/m3			02/05/18 13:10	1
Bromoform	<2.1		2.1		ug/m3			02/05/18 13:10	1
Bromomethane	<0.78		0.78		ug/m3			02/05/18 13:10	1
2-Butanone (MEK)	<1.5		1.5		ug/m3			02/05/18 13:10	1
Carbon disulfide	<1.6		1.6		ug/m3			02/05/18 13:10	1
Carbon tetrachloride	<1.3		1.3		ug/m3			02/05/18 13:10	1
Chlorobenzene	<0.92		0.92		ug/m3			02/05/18 13:10	1
Chloroethane	<1.3		1.3		ug/m3			02/05/18 13:10	1
Chloroform	<0.98		0.98		ug/m3			02/05/18 13:10	1
Chloromethane	<1.0		1.0		ug/m3			02/05/18 13:10	1

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-126114/4

Matrix: Air

Analysis Batch: 126114

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

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Chlorodibromomethane	<1.7				1.7		ug/m3			02/05/18 13:10	1
1,1-Dichloroethane	<0.81				0.81		ug/m3			02/05/18 13:10	1
1,2-Dichloroethane	<0.81				0.81		ug/m3			02/05/18 13:10	1
cis-1,2-Dichloroethene	<0.79				0.79		ug/m3			02/05/18 13:10	1
trans-1,2-Dichloroethene	<0.79				0.79		ug/m3			02/05/18 13:10	1
1,1-Dichloroethene	<0.79				0.79		ug/m3			02/05/18 13:10	1
1,2-Dichloropropane	<0.92				0.92		ug/m3			02/05/18 13:10	1
cis-1,3-Dichloropropene	<0.91				0.91		ug/m3			02/05/18 13:10	1
trans-1,3-Dichloropropene	<0.91				0.91		ug/m3			02/05/18 13:10	1
Ethylbenzene	<0.87				0.87		ug/m3			02/05/18 13:10	1
2-Hexanone	<2.0				2.0		ug/m3			02/05/18 13:10	1
Methylene Chloride	<1.7				1.7		ug/m3			02/05/18 13:10	1
4-Methyl-2-pentanone (MIBK)	<2.0				2.0		ug/m3			02/05/18 13:10	1
Styrene	<0.85				0.85		ug/m3			02/05/18 13:10	1
1,1,2,2-Tetrachloroethane	<1.4				1.4		ug/m3			02/05/18 13:10	1
Tetrachloroethene	<1.4				1.4		ug/m3			02/05/18 13:10	1
Toluene	<0.75				0.75		ug/m3			02/05/18 13:10	1
1,1,1-Trichloroethane	<1.1				1.1		ug/m3			02/05/18 13:10	1
1,1,2-Trichloroethane	<1.1				1.1		ug/m3			02/05/18 13:10	1
Trichloroethene	<1.1				1.1		ug/m3			02/05/18 13:10	1
Vinyl chloride	<0.51				0.51		ug/m3			02/05/18 13:10	1
Xylenes, Total	<3.0				3.0		ug/m3			02/05/18 13:10	1

Lab Sample ID: LCS 200-126114/3

Matrix: Air

Analysis Batch: 126114

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	Limits
	Added	Result	Qualifier				
Acetone	10.0	10.5		ppb v/v		105	64 - 136
Benzene	10.0	8.95		ppb v/v		90	67 - 127
Dichlorobromomethane	10.0	9.29		ppb v/v		93	69 - 129
Bromoform	10.0	8.01		ppb v/v		80	34 - 170
Bromomethane	10.0	8.17		ppb v/v		82	68 - 128
2-Butanone (MEK)	10.0	9.91		ppb v/v		99	62 - 122
Carbon disulfide	10.0	10.6		ppb v/v		106	81 - 141
Carbon tetrachloride	10.0	9.80		ppb v/v		98	62 - 143
Chlorobenzene	10.0	9.59		ppb v/v		96	68 - 128
Chloroethane	10.0	7.67		ppb v/v		77	65 - 125
Chloroform	10.0	9.62		ppb v/v		96	69 - 129
Chloromethane	10.0	8.77		ppb v/v		88	57 - 126
Chlorodibromomethane	10.0	8.94		ppb v/v		89	66 - 130
1,1-Dichloroethane	10.0	9.67		ppb v/v		97	66 - 126
1,2-Dichloroethane	10.0	9.28		ppb v/v		93	67 - 132
cis-1,2-Dichloroethene	10.0	9.13		ppb v/v		91	67 - 127
trans-1,2-Dichloroethene	10.0	10.1		ppb v/v		101	72 - 132
1,1-Dichloroethene	10.0	8.58		ppb v/v		86	67 - 127
1,2-Dichloropropane	10.0	8.96		ppb v/v		90	67 - 127
cis-1,3-Dichloropropene	10.0	7.29		ppb v/v		73	70 - 130

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-126114/3

Matrix: Air

Analysis Batch: 126114

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
trans-1,3-Dichloropropene	10.0	9.16		ppb v/v		92	69 - 129		
Ethylbenzene	10.0	9.64		ppb v/v		96	68 - 128		
2-Hexanone	10.0	8.93		ppb v/v		89	61 - 127		
Methylene Chloride	10.0	9.40		ppb v/v		94	62 - 122		
4-Methyl-2-pentanone (MIBK)	10.0	8.36		ppb v/v		84	62 - 130		
Styrene	10.0	10.3		ppb v/v		103	68 - 128		
1,1,2,2-Tetrachloroethane	10.0	9.66		ppb v/v		97	69 - 129		
Tetrachloroethene	10.0	10.1		ppb v/v		101	70 - 130		
Toluene	10.0	10.4		ppb v/v		104	67 - 127		
1,1,1-Trichloroethane	10.0	9.59		ppb v/v		96	70 - 130		
1,1,2-Trichloroethane	10.0	8.90		ppb v/v		89	69 - 129		
Trichloroethene	10.0	9.34		ppb v/v		93	68 - 128		
Vinyl chloride	10.0	7.47		ppb v/v		75	62 - 125		
Xylenes, Total	30.0	30.0		ppb v/v		100	67 - 128		
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Acetone	24	24.9		ug/m ³		105	64 - 136		
Benzene	32	28.6		ug/m ³		90	67 - 127		
Dichlorobromomethane	67	62.2		ug/m ³		93	69 - 129		
Bromoform	100	82.8		ug/m ³		80	34 - 170		
Bromomethane	39	31.7		ug/m ³		82	68 - 128		
2-Butanone (MEK)	29	29.2		ug/m ³		99	62 - 122		
Carbon disulfide	31	33.0		ug/m ³		106	81 - 141		
Carbon tetrachloride	63	61.6		ug/m ³		98	62 - 143		
Chlorobenzene	46	44.1		ug/m ³		96	68 - 128		
Chloroethane	26	20.2		ug/m ³		77	65 - 125		
Chloroform	49	47.0		ug/m ³		96	69 - 129		
Chloromethane	21	18.1		ug/m ³		88	57 - 126		
Chlorodibromomethane	85	76.2		ug/m ³		89	66 - 130		
1,1-Dichloroethane	40	39.1		ug/m ³		97	66 - 126		
1,2-Dichloroethane	40	37.6		ug/m ³		93	67 - 132		
cis-1,2-Dichloroethene	40	36.2		ug/m ³		91	67 - 127		
trans-1,2-Dichloroethene	40	40.0		ug/m ³		101	72 - 132		
1,1-Dichloroethene	40	34.0		ug/m ³		86	67 - 127		
1,2-Dichloropropane	46	41.4		ug/m ³		90	67 - 127		
cis-1,3-Dichloropropene	45	33.1		ug/m ³		73	70 - 130		
trans-1,3-Dichloropropene	45	41.6		ug/m ³		92	69 - 129		
Ethylbenzene	43	41.9		ug/m ³		96	68 - 128		
2-Hexanone	41	36.6		ug/m ³		89	61 - 127		
Methylene Chloride	35	32.7		ug/m ³		94	62 - 122		
4-Methyl-2-pentanone (MIBK)	41	34.2		ug/m ³		84	62 - 130		
Styrene	43	44.0		ug/m ³		103	68 - 128		
1,1,2,2-Tetrachloroethane	69	66.3		ug/m ³		97	69 - 129		
Tetrachloroethene	68	68.5		ug/m ³		101	70 - 130		
Toluene	38	39.1		ug/m ³		104	67 - 127		
1,1,1-Trichloroethane	55	52.3		ug/m ³		96	70 - 130		
1,1,2-Trichloroethane	55	48.6		ug/m ³		89	69 - 129		
Trichloroethene	54	50.2		ug/m ³		93	68 - 128		

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-126114/3

Client Sample ID: Lab Control Sample

Matrix: Air

Prep Type: Total/NA

Analysis Batch: 126114

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Vinyl chloride	26	19.1		ug/m3	75	100	62 - 125	
Xylenes, Total		130		ug/m3		100	67 - 128	

QC Association Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Air - GC/MS VOA

Analysis Batch: 126114

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-42110-1	SG-FRSC-02S-C	Total/NA	Air	TO-15	5
200-42110-2	SG-FRSC-02D-C	Total/NA	Air	TO-15	6
200-42110-3	SG-TSC-02S-C	Total/NA	Air	TO-15	7
MB 200-126114/4	Method Blank	Total/NA	Air	TO-15	8
LCS 200-126114/3	Lab Control Sample	Total/NA	Air	TO-15	9

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Client Sample ID: SG-FRSC-02S-C

Date Collected: 01/31/18 11:43

Date Received: 02/02/18 10:30

Lab Sample ID: 200-42110-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		139.3	126114	02/05/18 20:45	K1P	TAL BUR

Client Sample ID: SG-FRSC-02D-C

Date Collected: 01/31/18 12:20

Date Received: 02/02/18 10:30

Lab Sample ID: 200-42110-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		207	126114	02/05/18 21:36	K1P	TAL BUR

Client Sample ID: SG-TSC-02S-C

Date Collected: 01/31/18 12:50

Date Received: 02/02/18 10:30

Lab Sample ID: 200-42110-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		12181	126114	02/05/18 22:27	K1P	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TestAmerica Burlington

Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
L-A-B	DoD ELAP		L2336	02-25-20
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Hampshire	NELAP	1	2006	12-18-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18
Pennsylvania	NELAP	3	68-00489	04-30-18
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	12-05-19
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Sample Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42110-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-42110-1	SG-FRSC-02S-C	Air	01/31/18 11:43	02/02/18 10:30
200-42110-2	SG-FRSC-02D-C	Air	01/31/18 12:20	02/02/18 10:30
200-42110-3	SG-TSC-02S-C	Air	01/31/18 12:50	02/02/18 10:30

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TestAmerica Burlington

ORIGIN ID: MULAB (678) 966-9991
GEORGE TAYLOR
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NORCROSS, GA 30093
UNITED STATES US

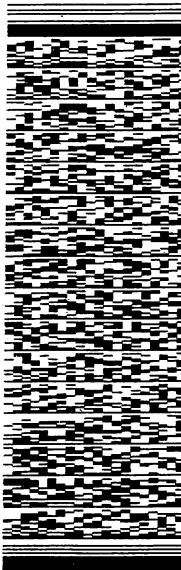
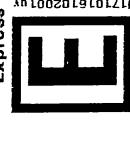
SHIP DATE: 01 FEB 18
ACT WT: 23.95 LB
CAB: 859116CAFE1108

BILL RECIPIENT

To SAMPLE RECEIVING
TEST AMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1980
REF: ASHLAND

(802) 660-1980

FedEx
Express

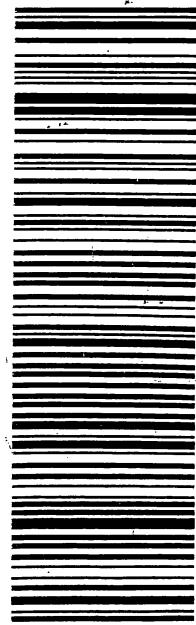


4171016102001 0201
FRI - 02 FEB 3:00P
STANDARD OVERNIGHT

TRK#
0201

NC BTVA

05403
VT-US BTV



Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 200-42110-1

Login Number: 42110

List Source: TestAmerica Burlington

List Number: 1

Creator: Hahl, Victoria L

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	430075	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True	Kris Spikes, Rick Henterly	
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.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.	

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure. Acceptance Criteria: (1) The difference must be less than or equal to + 0.25 psi. (2) Pressure readings must be at least 21 hours apart.

સ્વરૂપાનાના - ॥૭॥ પ્રદીપ - ॥૮॥ અનુભાવ : આવેનીએ લાગે.

PM Authorization

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory | Level 3: Individual or Batch Certification (TO1502 below)

וְיִמְלֹא תְּבוּנָתֶךָ כַּאֲשֶׁר־בְּעֵינֶךָ (בְּעֵינֶךָ).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Comments:

Loc: 200
41208
#5
A

Page 23 of 40

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID		# Cycles		Cleaning Date		Technician		Canister Size		Certification Type:	
Port	Can ID	Bottom Rack		25		SML		1L	6	Individual	Batch
1	3162	104	104	04	04	-29.5	225	22	25	15/18	1200
2	4368	104	104	04	04	-29.5	225	22	25	15/18	1200
3	4430	104	104	04	04	-29.5	225	22	25	15/18	1200
4	3725	109	109	05	05	-29.5	225	22	25	15/18	1200
5	3353	104	104	04	04	-29.5	225	22	25	15/18	1200
6	5968	104	104	04	04	-29.5	225	22	25	15/18	1200
7	5142	108	108	04	04	-29.5	225	22	25	15/18	1200
8	5160	104	104	04	04	-29.5	225	22	25	15/18	1200
9	5464	104	104	04	04	-29.5	225	22	25	15/18	1200
10	3686	104	104	04	04	-29.5	225	22	25	15/18	1200
11	3464	110	110	06	06	-29.5	225	22	25	15/18	1200
12	3219	104	104	04	04	-29.5	225	22	25	15/18	1200

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: \leq TO15 Routine \leq TO15 LL \leq NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level	Secondary Review
4368	12/28/17	28577	Ak	XXXX	12/29/17 WWD

Inventory Level 1: Individual Canister Certification (TO15 LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15 LL NJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

Loc: 200
41490
#2
A

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41208-1

SDG No.: _____

Client Sample ID: 4717

Lab Sample ID: 200-41208-5

Matrix: Air

Lab File ID: 28186-12.d

Analysis Method: TO-15

Date Collected: 11/30/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 12/05/2017 21:45

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 124054

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41208-1

SDG No.: _____

Client Sample ID: 4717

Lab Sample ID: 200-41208-5

Matrix: Air

Lab File ID: 28186-12.d

Analysis Method: TO-15

Date Collected: 11/30/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 12/05/2017 21:45

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 124054

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41208-1

SDG No.: _____

Client Sample ID: 4717

Lab Sample ID: 200-41208-5

Matrix: Air

Lab File ID: 28186-12.d

Analysis Method: TO-15

Date Collected: 11/30/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 12/05/2017 21:45

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 124054

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHW.i\20171205-28186.b\28186-12.d		
Lims ID:	200-41208-A-5		
Client ID:	4717		
Sample Type:	Client		
Inject. Date:	05-Dec-2017 21:45:30	ALS Bottle#:	11
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0028186-012		
Operator ID:	ert	Instrument ID:	CHW.i
Method:	\ChromNA\Burlington\ChromData\CHW.i\20171205-28186.b\TO15_MasterMethod_(v1).m		
Limit Group:	AI_TO15_ICAL		
Last Update:	07-Dec-2017 11:56:02	Calib Date:	09-Nov-2017 01:23:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICAL File:	\ChromNA\Burlington\ChromData\CHW.i\20171108-27803.b\27803-13.d		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK016		

First Level Reviewer: tobere

Date:

07-Dec-2017 11:42:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	5.063					ND	
2 Dichlorodifluoromethane	85	5.176					ND	
3 Chlorodifluoromethane	51	5.256					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	5.577					ND	
5 Chloromethane	50	5.769					ND	
6 Butane	43	6.042					ND	
7 Vinyl chloride	62	6.096					ND	
8 Butadiene	54	6.197					ND	
10 Bromomethane	94	6.995					ND	
11 Chloroethane	64	7.241					ND	
13 Vinyl bromide	106	7.647					ND	
14 Trichlorofluoromethane	101	7.744					ND	
17 Ethanol	45	8.252					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	8.749					ND	
21 1,1-Dichloroethene	96	8.808					ND	
22 Acetone	43	9.011					ND	
23 Carbon disulfide	76	9.204					ND	
24 Isopropyl alcohol	45	9.225	9.215	0.010	99	10505	0.2951	
25 3-Chloro-1-propene	41	9.509					ND	
27 Methylene Chloride	49	9.760	9.771	-0.011	95	1441	0.0620	
28 2-Methyl-2-propanol	59	9.894					ND	
29 Methyl tert-butyl ether	73	10.103					ND	
31 trans-1,2-Dichloroethene	61	10.162					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
33 Hexane	57	10.488					ND	
34 1,1-Dichloroethane	63	10.953					ND	
35 Vinyl acetate	43	10.985					ND	
37 cis-1,2-Dichloroethene	96	11.959					ND	
38 2-Butanone (MEK)	72	11.980					ND	
39 Ethyl acetate	88	11.991					ND	
41 Tetrahydrofuran	42	12.382					ND	
* 40 Chlorobromomethane	128	12.382	12.382	0.000	98	141271	10.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		12.478				ND	
43 Cyclohexane	84		12.735				ND	
44 1,1,1-Trichloroethane	97		12.751				ND	
45 Carbon tetrachloride	117		12.976				ND	
46 Isooctane	57		13.329				ND	
47 Benzene	78		13.393				ND	
48 1,2-Dichloroethane	62		13.537				ND	
49 n-Heptane	43		13.644				ND	
* 50 1,4-Difluorobenzene	114	14.083	14.088	-0.005	96	769538	10.0	
53 Trichloroethene	95		14.511				ND	
54 1,2-Dichloropropane	63		15.003				ND	
55 Methyl methacrylate	69		15.089				ND	
56 1,4-Dioxane	88		15.169				ND	
57 Dibromomethane	174		15.233				ND	
58 Dichlorobromomethane	83		15.468				ND	
60 cis-1,3-Dichloropropene	75		16.292				ND	
61 4-Methyl-2-pentanone (MIBK)	43		16.522				ND	
65 Toluene	92		16.833				ND	
66 trans-1,3-Dichloropropene	75		17.357				ND	
67 1,1,2-Trichloroethane	83		17.710				ND	
68 Tetrachloroethene	166		17.828				ND	
69 2-Hexanone	43		18.101				ND	
71 Chlorodibromomethane	129		18.438				ND	
72 Ethylene Dibromide	107		18.710				ND	
* 74 Chlorobenzene-d5	117	19.550	19.550	0.000	89	660456	10.0	
75 Chlorobenzene	112		19.609				ND	
76 Ethylbenzene	91		19.738				ND	
78 m-Xylene & p-Xylene	106		19.973				ND	
S 73 Xylenes, Total	106		20.100				ND	
79 o-Xylene	106		20.749				ND	
80 Styrene	104		20.791				ND	
81 Bromoform	173		21.182				ND	
82 Isopropylbenzene	105		21.353				ND	
84 1,1,2,2-Tetrachloroethane	83		21.952				ND	
85 N-Propylbenzene	91		22.022				ND	
88 4-Ethyltoluene	105		22.198				ND	
89 2-Chlorotoluene	91		22.220				ND	
90 1,3,5-Trimethylbenzene	105		22.300				ND	
92 tert-Butylbenzene	119		22.776				ND	
93 1,2,4-Trimethylbenzene	105		22.867				ND	
94 sec-Butylbenzene	105		23.092				ND	
95 4-Isopropyltoluene	119		23.290				ND	
96 1,3-Dichlorobenzene	146		23.338				ND	
97 1,4-Dichlorobenzene	146		23.477				ND	
98 Benzyl chloride	91		23.680				ND	
100 n-Butylbenzene	91		23.889				ND	
101 1,2-Dichlorobenzene	146		24.039				ND	
103 1,2,4-Trichlorobenzene	180		26.714				ND	
104 Hexachlorobutadiene	225		26.906				ND	
105 Naphthalene	128		27.249				ND	

Reagents:

ATTO15WISs_00004

Amount Added: 20.00

Units: mL

Run Reagent

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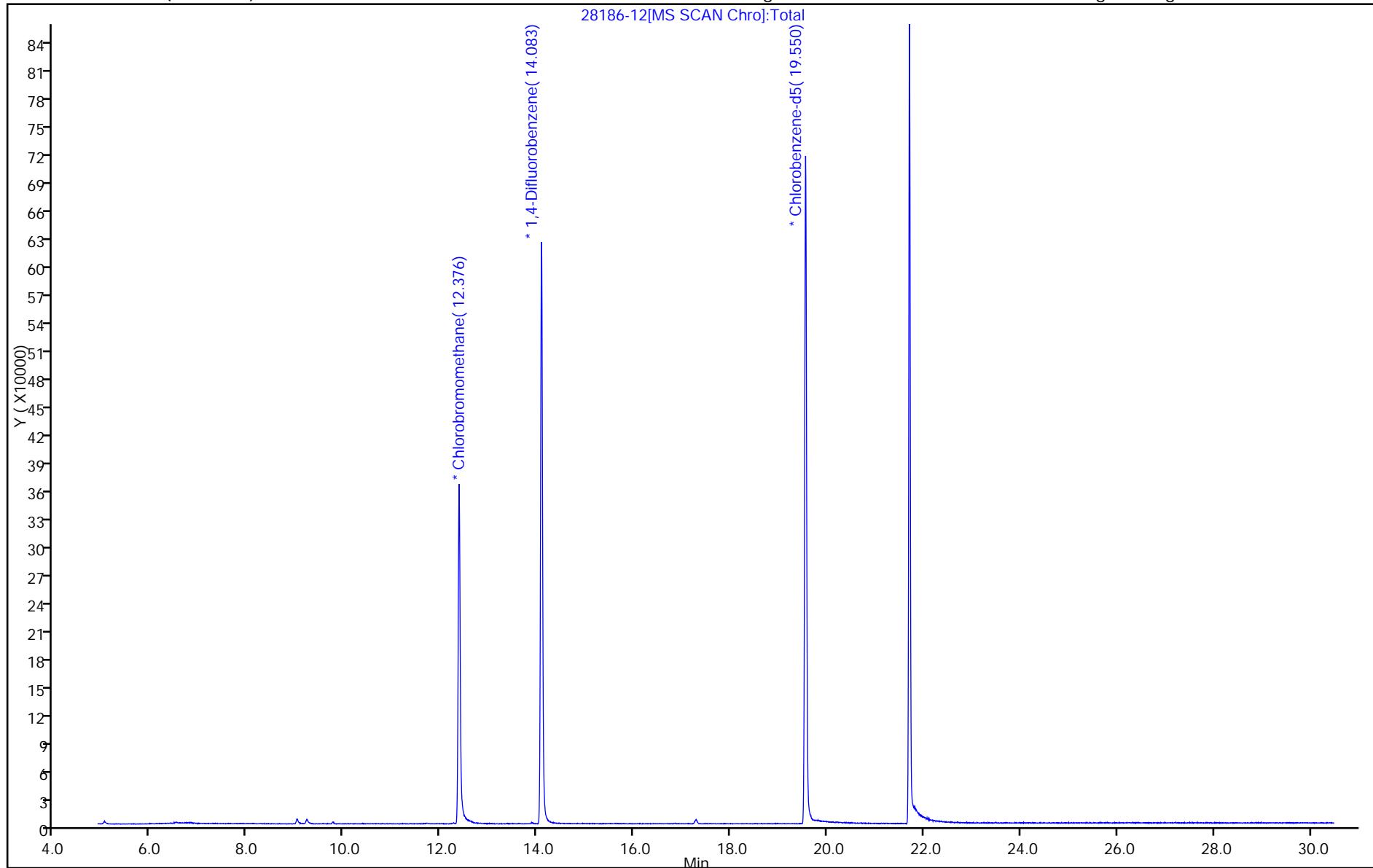
Report Date: 07-Dec-2017 11:58:38

Chrom Revision: 2.2 13-Nov-2017 17:19:06

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHW.l\\20171205-28186.b\\28186-12.d
Injection Date: 05-Dec-2017 21:45:30 Instrument ID: CHW.i Operator ID: ert
Lims ID: 200-41208-A-5 Lab Sample ID: 200-41208-5 Worklist Smp#: 12
Client ID: 4717
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 11
Method: TO15_MasterMethod_(v1) Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41490-1

SDG No.: _____

Client Sample ID: 4368

Lab Sample ID: 200-41490-2

Matrix: Air

Lab File ID: 28577-12.D

Analysis Method: TO-15

Date Collected: 12/17/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 12/28/2017 21:24

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 124972

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41490-1

SDG No.: _____

Client Sample ID: 4368

Lab Sample ID: 200-41490-2

Matrix: Air

Lab File ID: 28577-12.D

Analysis Method: TO-15

Date Collected: 12/17/2017 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 12/28/2017 21:24

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 124972

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-41490-1

SDG No.: _____

Client Sample ID: 4368 Lab Sample ID: 200-41490-2

Matrix: Air Lab File ID: 28577-12.D

Analysis Method: TO-15 Date Collected: 12/17/2017 00:00

Sample wt/vol: 1000 (mL) Date Analyzed: 12/28/2017 21:24

Soil Aliquot Vol: _____ Dilution Factor: 0.2

Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____ Level: (low/med) Low

Analysis Batch No.: 124972 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHG.i\20171228-28577.b\28577-12.D		
Lims ID:	200-41490-A-2		
Client ID:	4368		
Sample Type:	Client		
Inject. Date:	28-Dec-2017 21:24:30	ALS Bottle#:	10
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0028577-012		
Misc. Info.:	41490-2		
Operator ID:	WRD	Instrument ID:	CHG.i
Method:	\ChromNA\Burlington\ChromData\CHG.i\20171228-28577.b\TO15_MasterMethod_(v1)_G.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	29-Dec-2017 10:45:33	Calib Date:	12-Dec-2017 02:10:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHG.i\20171211-28297.b\28297-12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK032		

First Level Reviewer: bunmaa Date: 29-Dec-2017 10:45:33

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
----------	-----	-----------	---------------	---------------	---	----------	-------------------	-------

1 Propene	41	3.112					ND	
2 Dichlorodifluoromethane	85	3.165					ND	
3 Chlorodifluoromethane	51	3.203					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.374					ND	
5 Chloromethane	50	3.491					ND	
6 Butane	43	3.647					ND	
7 Vinyl chloride	62	3.684					ND	
8 Butadiene	54	3.743					ND	
10 Bromomethane	94	4.283					ND	
11 Chloroethane	64	4.465					ND	
13 Vinyl bromide	106	4.781					ND	
14 Trichlorodifluoromethane	101	4.850					ND	
17 Ethanol	45	5.316					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	5.728					ND	
21 1,1-Dichloroethene	96	5.786					ND	
22 Acetone	43	6.000					ND	
23 Carbon disulfide	76	6.150					ND	
24 Isopropyl alcohol	45	6.231					ND	
25 3-Chloro-1-propene	41	6.455					ND	
27 Methylene Chloride	49	6.717					ND	M
28 2-Methyl-2-propanol	59	6.921					ND	
29 Methyl tert-butyl ether	73	7.092					ND	
31 trans-1,2-Dichloroethene	61	7.108					ND	
33 Hexane	57	7.445					ND	
34 1,1-Dichloroethane	63	7.910					ND	
35 Vinyl acetate	43	7.975					ND	
37 cis-1,2-Dichloroethene	96	8.932					ND	
38 2-Butanone (MEK)	72	9.002					ND	
39 Ethyl acetate	88	9.034					ND	
* 40 Chlorobromomethane	128	9.376	9.371	0.005	76	292971	10.0	
41 Tetrahydrofuran	42	9.408					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		9.488				ND	
S 30 1,2-Dichloroethene, Total	61		9.665				ND	
43 Cyclohexane	84		9.735				ND	
44 1,1,1-Trichloroethane	97		9.756				ND	
45 Carbon tetrachloride	117		9.997				ND	
46 Isooctane	57		10.403				ND	
47 Benzene	78		10.451				ND	
48 1,2-Dichloroethane	62		10.628				ND	
49 n-Heptane	43		10.783				ND	
* 50 1,4-Difluorobenzene	114	11.270	11.265	0.005	94	1476338	10.0	
53 Trichloroethene	95		11.725				ND	
54 1,2-Dichloropropane	63		12.281				ND	
55 Methyl methacrylate	69		12.452				ND	
56 1,4-Dioxane	88		12.527				ND	
57 Dibromomethane	174		12.532				ND	M
58 Dichlorobromomethane	83		12.816				ND	
60 cis-1,3-Dichloropropene	75		13.736				ND	
61 4-Methyl-2-pentanone (MIBK)	43		14.052				ND	
65 Toluene	92		14.314				ND	
66 trans-1,3-Dichloropropene	75		14.918				ND	
67 1,1,2-Trichloroethane	83		15.288				ND	
68 Tetrachloroethene	166		15.384				ND	
69 2-Hexanone	43		15.769				ND	
71 Chlorodibromomethane	129		16.047				ND	
72 Ethylene Dibromide	107		16.320				ND	
* 74 Chlorobenzene-d5	117	17.224	17.219	0.005	86	1305135	10.0	
75 Chlorobenzene	112		17.283				ND	
76 Ethylbenzene	91		17.438				ND	M
78 m-Xylene & p-Xylene	106	17.706	17.706	0.011	0	693	0.0121	7M
79 o-Xylene	106		18.546				ND	
80 Styrene	104		18.604				ND	
81 Bromoform	173		19.048				ND	
82 Isopropylbenzene	105		19.289				ND	
S 73 Xylenes, Total	106				0		0.0121	7
84 1,1,2,2-Tetrachloroethane	83		19.995				ND	
85 N-Propylbenzene	91		20.059				ND	
89 2-Chlorotoluene	91		20.263				ND	
88 4-Ethyltoluene	105		20.263				ND	
90 1,3,5-Trimethylbenzene	105		20.380				ND	
92 tert-Butylbenzene	119		20.889				ND	
93 1,2,4-Trimethylbenzene	105		20.990				ND	
94 sec-Butylbenzene	105		21.226				ND	
95 4-Isopropyltoluene	119		21.440				ND	
96 1,3-Dichlorobenzene	146		21.456				ND	
97 1,4-Dichlorobenzene	146		21.600				ND	
98 Benzyl chloride	91		21.809				ND	
100 n-Butylbenzene	91		22.023				ND	
101 1,2-Dichlorobenzene	146		22.130				ND	
103 1,2,4-Trichlorobenzene	180		24.569				ND	
104 Hexachlorobutadiene	225		24.751				ND	
105 Naphthalene	128		25.035				ND	M

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

ATTO15GIS_00015

Amount Added: 20.00

Units: mL

Run Reagent

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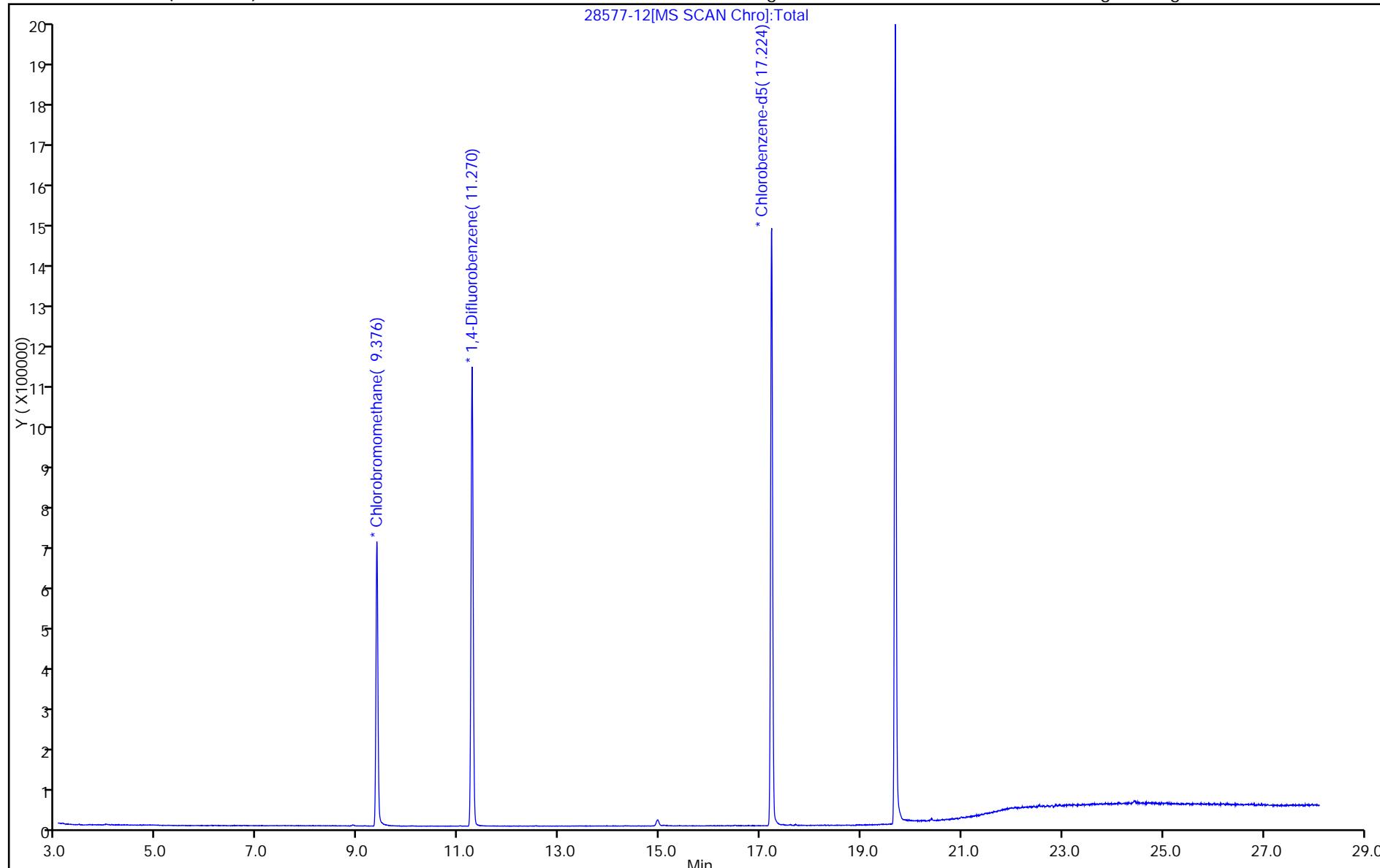
15

Report Date: 29-Dec-2017 10:45:33

Chrom Revision: 2.2 08-Dec-2017 11:41:26

TestAmerica Burlington
Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171228-28577.b\\28577-12.D
Injection Date: 28-Dec-2017 21:24:30 Instrument ID: CHG.i Operator ID: WRD
Lims ID: 200-41490-A-2 Lab Sample ID: 200-41490-2 Worklist Smp#: 12
Client ID: 4368
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 10
Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington

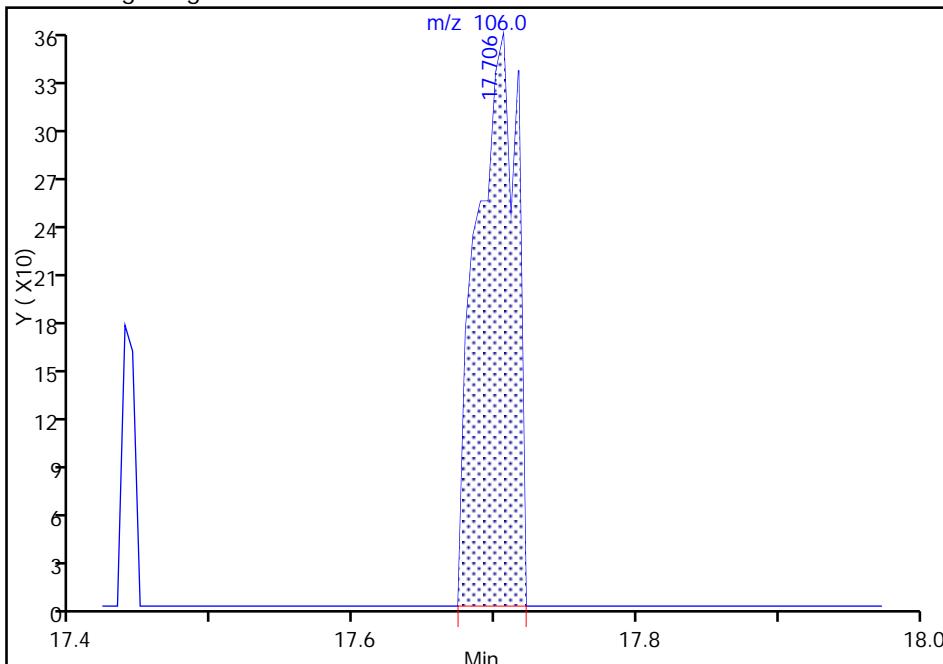
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 Injection Date: 28-Dec-2017 21:24:30 Instrument ID: CHG.i
 Lims ID: 200-41490-A-2 Lab Sample ID: 200-41490-2
 Client ID: 4368
 Operator ID: WRD ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

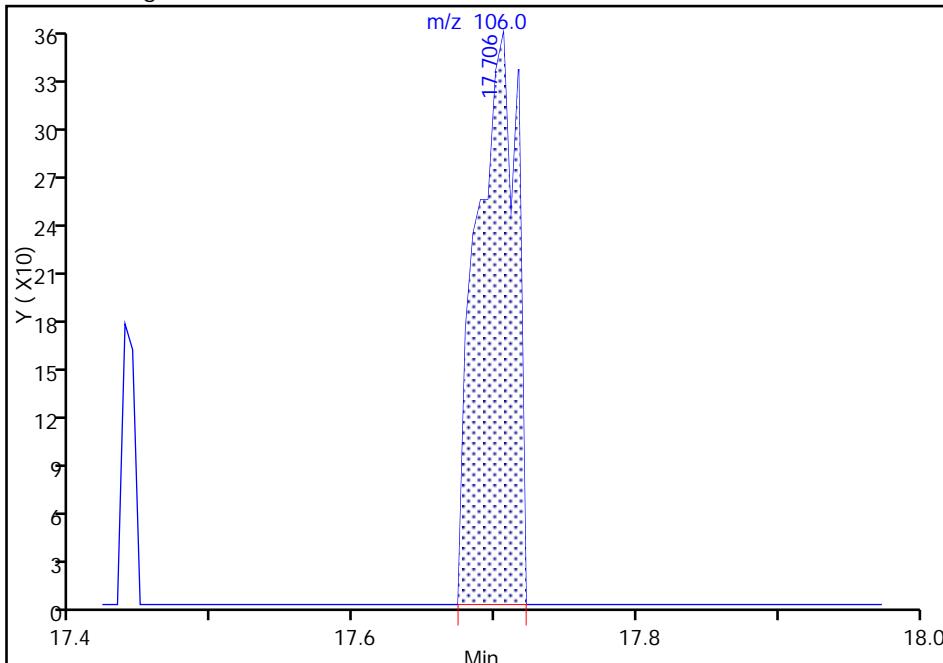
RT: 17.71
 Area: 693
 Amount: 0.012102
 Amount Units: ppb v/v

Processing Integration Results



RT: 17.71
 Area: 693
 Amount: 0.012102
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 29-Dec-2017 10:43:27

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Burlington

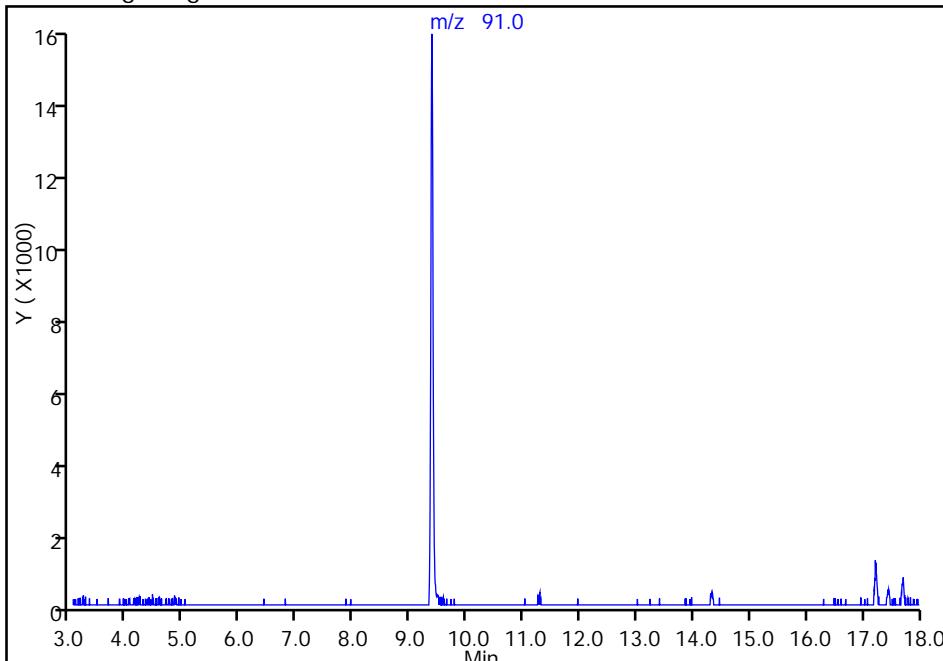
Data File: \\ChromNA\\Burlington\\ChromData\\CHG.i\\20171228-28577.b\\28577-12.D
 Injection Date: 28-Dec-2017 21:24:30 Instrument ID: CHG.i
 Lims ID: 200-41490-A-2 Lab Sample ID: 200-41490-2
 Client ID: 4368
 Operator ID: WRD ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_G Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

78 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 2

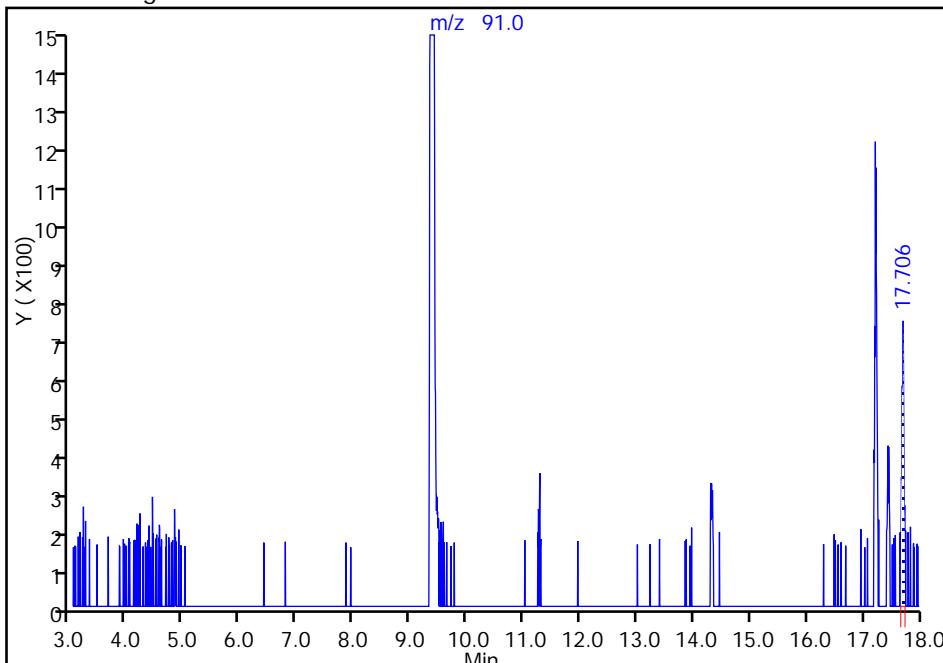
RT: 17.69
 Area: 0
 Amount: 0.012102
 Amount Units: ppb v/v

Processing Integration Results



RT: 17.71
 Area: 1789
 Amount: 0.012102
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: bunmaa, 29-Dec-2017 10:43:42

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-42610-1

Client Project/Site: Ashland Alterman (Jonesboro)

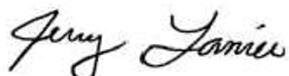
For:

EHS Support, LLC

228 4th Avenue

Decatur, Georgia 30033

Attn: Kris Spikes



Authorized for release by:

3/26/2018 12:02:41 PM

Jerry Lanier, Project Manager I

(912)354-7858 e.3410

jerry.lanier@testamericainc.com

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results through

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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.

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Case Narrative

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Job ID: 200-42610-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 200-42610-1

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 03/15/2018; the samples arrived in good condition.

During the canister pressure check performed upon receipt, it was observed that the following sample was received at an elevated residual vacuum level: TS-SS-D (200-42610-5). The associated flow controller was evaluated upon receipt and was found to be outside the acceptable flow range as compared to the original set flow rate.

Flow controller 5881 returned with note "flow controller full of water". Associated air canister may contain moisture.
TS-SS-D (200-42610-5)

VOLATILE ORGANIC COMPOUNDS

Samples TS-SS-A (200-42610-1), TS-SS-B (200-42610-2), TS-SS-C (200-42610-3), TS-SS-CD (200-42610-4), TS-SS-D (200-42610-5) and TS-SS-E (200-42610-6) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/16/2018.

Samples TS-SS-A (200-42610-1)[2X], TS-SS-C (200-42610-3)[419X], TS-SS-CD (200-42610-4)[451X], TS-SS-D (200-42610-5)[4.13X] and TS-SS-E (200-42610-6)[14.8X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Sample Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-42610-1	TS-SS-A	Air	03/12/18 13:52	03/15/18 10:40
200-42610-2	TS-SS-B	Air	03/12/18 14:56	03/15/18 10:40
200-42610-3	TS-SS-C	Air	03/12/18 15:56	03/15/18 10:40
200-42610-4	TS-SS-CD	Air	03/12/18 15:56	03/15/18 10:40
200-42610-5	TS-SS-D	Air	03/12/18 17:06	03/15/18 10:40
200-42610-6	TS-SS-E	Air	03/12/18 18:30	03/15/18 10:40

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TestAmerica Burlington

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Definitions/Glossary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Detection Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-A

Lab Sample ID: 200-42610-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	38		24		ug/m3	2		TO-15	Total/NA
Tetrachloroethene	260		2.7		ug/m3	2		TO-15	Total/NA
Toluene	1.8		1.5		ug/m3	2		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16		10		ppb v/v	2		TO-15	Total/NA
Tetrachloroethene	39		0.40		ppb v/v	2		TO-15	Total/NA
Toluene	0.47		0.40		ppb v/v	2		TO-15	Total/NA

Client Sample ID: TS-SS-B

Lab Sample ID: 200-42610-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	13		12		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.0		1.5		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	3.8		1.4		ug/m3	1		TO-15	Total/NA
Toluene	2.1		0.75		ug/m3	1		TO-15	Total/NA
Xylenes, Total	3.8		3.0		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.7		5.0		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.68		0.50		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.56		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	0.54		0.20		ppb v/v	1		TO-15	Total/NA
Xylenes, Total	0.88		0.70		ppb v/v	1		TO-15	Total/NA

Client Sample ID: TS-SS-C

Lab Sample ID: 200-42610-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	45000		570		ug/m3	419		TO-15	Total/NA
Trichloroethene	670		450		ug/m3	419		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	6600		84		ppb v/v	419		TO-15	Total/NA
Trichloroethene	130		84		ppb v/v	419		TO-15	Total/NA

Client Sample ID: TS-SS-CD

Lab Sample ID: 200-42610-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	49000		610		ug/m3	451		TO-15	Total/NA
Trichloroethene	770		480		ug/m3	451		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	7200		90		ppb v/v	451		TO-15	Total/NA
Trichloroethene	140		90		ppb v/v	451		TO-15	Total/NA

Client Sample ID: TS-SS-D

Lab Sample ID: 200-42610-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	290		49		ug/m3	4.13		TO-15	Total/NA
2-Butanone (MEK)	14		6.1		ug/m3	4.13		TO-15	Total/NA
Methylene Chloride	7.5		7.2		ug/m3	4.13		TO-15	Total/NA
Tetrachloroethene	420		5.6		ug/m3	4.13		TO-15	Total/NA
Toluene	18		3.1		ug/m3	4.13		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-D (Continued)

Lab Sample ID: 200-42610-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vinyl chloride	2.8		2.1		ug/m3	4.13		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	120		21		ppb v/v	4.13		TO-15	Total/NA
2-Butanone (MEK)	4.6		2.1		ppb v/v	4.13		TO-15	Total/NA
Methylene Chloride	2.1		2.1		ppb v/v	4.13		TO-15	Total/NA
Tetrachloroethene	62		0.83		ppb v/v	4.13		TO-15	Total/NA
Toluene	4.7		0.83		ppb v/v	4.13		TO-15	Total/NA
Vinyl chloride	1.1		0.83		ppb v/v	4.13		TO-15	Total/NA

Client Sample ID: TS-SS-E

Lab Sample ID: 200-42610-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	2600		20		ug/m3	14.8		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	380		3.0		ppb v/v	14.8		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-A

Date Collected: 03/12/18 13:52

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	38		24		ug/m3			03/16/18 13:52	2
Benzene	<1.3		1.3		ug/m3			03/16/18 13:52	2
Dichlorobromomethane	<2.7		2.7		ug/m3			03/16/18 13:52	2
Bromoform	<4.1		4.1		ug/m3			03/16/18 13:52	2
Bromomethane	<1.6		1.6		ug/m3			03/16/18 13:52	2
2-Butanone (MEK)	<2.9		2.9		ug/m3			03/16/18 13:52	2
Carbon disulfide	<3.1		3.1		ug/m3			03/16/18 13:52	2
Carbon tetrachloride	<2.5		2.5		ug/m3			03/16/18 13:52	2
Chlorobenzene	<1.8		1.8		ug/m3			03/16/18 13:52	2
Chloroethane	<2.6		2.6		ug/m3			03/16/18 13:52	2
Chloroform	<2.0		2.0		ug/m3			03/16/18 13:52	2
Chloromethane	<2.1		2.1		ug/m3			03/16/18 13:52	2
Chlorodibromomethane	<3.4		3.4		ug/m3			03/16/18 13:52	2
1,1-Dichloroethane	<1.6		1.6		ug/m3			03/16/18 13:52	2
1,2-Dichloroethane	<1.6		1.6		ug/m3			03/16/18 13:52	2
cis-1,2-Dichloroethene	<1.6		1.6		ug/m3			03/16/18 13:52	2
trans-1,2-Dichloroethene	<1.6		1.6		ug/m3			03/16/18 13:52	2
1,1-Dichloroethene	<1.6		1.6		ug/m3			03/16/18 13:52	2
1,2-Dichloropropane	<1.8		1.8		ug/m3			03/16/18 13:52	2
cis-1,3-Dichloropropene	<1.8		1.8		ug/m3			03/16/18 13:52	2
trans-1,3-Dichloropropene	<1.8		1.8		ug/m3			03/16/18 13:52	2
Ethylbenzene	<1.7		1.7		ug/m3			03/16/18 13:52	2
2-Hexanone	<4.1		4.1		ug/m3			03/16/18 13:52	2
Methylene Chloride	<3.5		3.5		ug/m3			03/16/18 13:52	2
4-Methyl-2-pentanone (MIBK)	<4.1		4.1		ug/m3			03/16/18 13:52	2
Styrene	<1.7		1.7		ug/m3			03/16/18 13:52	2
1,1,2,2-Tetrachloroethane	<2.7		2.7		ug/m3			03/16/18 13:52	2
Tetrachloroethene	260		2.7		ug/m3			03/16/18 13:52	2
Toluene	1.8		1.5		ug/m3			03/16/18 13:52	2
1,1,1-Trichloroethane	<2.2		2.2		ug/m3			03/16/18 13:52	2
1,1,2-Trichloroethane	<2.2		2.2		ug/m3			03/16/18 13:52	2
Trichloroethene	<2.1		2.1		ug/m3			03/16/18 13:52	2
Vinyl chloride	<1.0		1.0		ug/m3			03/16/18 13:52	2
Xylenes, Total	<6.1		6.1		ug/m3			03/16/18 13:52	2
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16		10		ppb v/v			03/16/18 13:52	2
Benzene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Dichlorobromomethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Bromoform	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Bromomethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
2-Butanone (MEK)	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Carbon disulfide	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Carbon tetrachloride	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Chlorobenzene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Chloroethane	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Chloroform	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Chloromethane	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Chlorodibromomethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-A

Date Collected: 03/12/18 13:52

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
1,2-Dichloroethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
cis-1,2-Dichloroethene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
trans-1,2-Dichloroethene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
1,1-Dichloroethene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
1,2-Dichloropropane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
cis-1,3-Dichloropropene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
trans-1,3-Dichloropropene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Ethylbenzene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
2-Hexanone	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Methylene Chloride	<1.0		1.0		ppb v/v			03/16/18 13:52	2
4-Methyl-2-pentanone (MIBK)	<1.0		1.0		ppb v/v			03/16/18 13:52	2
Styrene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
1,1,2,2-Tetrachloroethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Tetrachloroethene	39		0.40		ppb v/v			03/16/18 13:52	2
Toluene	0.47		0.40		ppb v/v			03/16/18 13:52	2
1,1,1-Trichloroethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
1,1,2-Trichloroethane	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Trichloroethene	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Vinyl chloride	<0.40		0.40		ppb v/v			03/16/18 13:52	2
Xylenes, Total	<1.4		1.4		ppb v/v			03/16/18 13:52	2

Client Sample ID: TS-SS-B

Date Collected: 03/12/18 14:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	13		12		ug/m3			03/16/18 14:44	1
Benzene	<0.64		0.64		ug/m3			03/16/18 14:44	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/16/18 14:44	1
Bromoform	<2.1		2.1		ug/m3			03/16/18 14:44	1
Bromomethane	<0.78		0.78		ug/m3			03/16/18 14:44	1
2-Butanone (MEK)	2.0		1.5		ug/m3			03/16/18 14:44	1
Carbon disulfide	<1.6		1.6		ug/m3			03/16/18 14:44	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/16/18 14:44	1
Chlorobenzene	<0.92		0.92		ug/m3			03/16/18 14:44	1
Chloroethane	<1.3		1.3		ug/m3			03/16/18 14:44	1
Chloroform	<0.98		0.98		ug/m3			03/16/18 14:44	1
Chloromethane	<1.0		1.0		ug/m3			03/16/18 14:44	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/16/18 14:44	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/16/18 14:44	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/16/18 14:44	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 14:44	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 14:44	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 14:44	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/16/18 14:44	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/16/18 14:44	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-B

Date Collected: 03/12/18 14:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/16/18 14:44	1
Ethylbenzene	<0.87		0.87		ug/m3			03/16/18 14:44	1
2-Hexanone	<2.0		2.0		ug/m3			03/16/18 14:44	1
Methylene Chloride	<1.7		1.7		ug/m3			03/16/18 14:44	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/16/18 14:44	1
Styrene	<0.85		0.85		ug/m3			03/16/18 14:44	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/16/18 14:44	1
Tetrachloroethene	3.8		1.4		ug/m3			03/16/18 14:44	1
Toluene	2.1		0.75		ug/m3			03/16/18 14:44	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/16/18 14:44	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/16/18 14:44	1
Trichloroethene	<1.1		1.1		ug/m3			03/16/18 14:44	1
Vinyl chloride	<0.51		0.51		ug/m3			03/16/18 14:44	1
Xylenes, Total	3.8		3.0		ug/m3			03/16/18 14:44	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.7		5.0		ppb v/v			03/16/18 14:44	1
Benzene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Bromoform	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Bromomethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
2-Butanone (MEK)	0.68		0.50		ppb v/v			03/16/18 14:44	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/16/18 14:44	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Chloroethane	<0.50		0.50		ppb v/v			03/16/18 14:44	1
Chloroform	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Chloromethane	<0.50		0.50		ppb v/v			03/16/18 14:44	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
2-Hexanone	<0.50		0.50		ppb v/v			03/16/18 14:44	1
Methylene Chloride	<0.50		0.50		ppb v/v			03/16/18 14:44	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/16/18 14:44	1
Styrene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Tetrachloroethene	0.56		0.20		ppb v/v			03/16/18 14:44	1
Toluene	0.54		0.20		ppb v/v			03/16/18 14:44	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Trichloroethene	<0.20		0.20		ppb v/v			03/16/18 14:44	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/16/18 14:44	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-B

Date Collected: 03/12/18 14:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	0.88		0.70		ppb v/v			03/16/18 14:44	1

Client Sample ID: TS-SS-C

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5000		5000		ug/m3			03/16/18 15:37	419
Benzene	<270		270		ug/m3			03/16/18 15:37	419
Dichlorobromomethane	<560		560		ug/m3			03/16/18 15:37	419
Bromoform	<870		870		ug/m3			03/16/18 15:37	419
Bromomethane	<330		330		ug/m3			03/16/18 15:37	419
2-Butanone (MEK)	<620		620		ug/m3			03/16/18 15:37	419
Carbon disulfide	<650		650		ug/m3			03/16/18 15:37	419
Carbon tetrachloride	<530		530		ug/m3			03/16/18 15:37	419
Chlorobenzene	<390		390		ug/m3			03/16/18 15:37	419
Chloroethane	<550		550		ug/m3			03/16/18 15:37	419
Chloroform	<410		410		ug/m3			03/16/18 15:37	419
Chloromethane	<430		430		ug/m3			03/16/18 15:37	419
Chlorodibromomethane	<710		710		ug/m3			03/16/18 15:37	419
1,1-Dichloroethane	<340		340		ug/m3			03/16/18 15:37	419
1,2-Dichloroethane	<340		340		ug/m3			03/16/18 15:37	419
cis-1,2-Dichloroethene	<330		330		ug/m3			03/16/18 15:37	419
trans-1,2-Dichloroethene	<330		330		ug/m3			03/16/18 15:37	419
1,1-Dichloroethene	<330		330		ug/m3			03/16/18 15:37	419
1,2-Dichloropropane	<390		390		ug/m3			03/16/18 15:37	419
cis-1,3-Dichloropropene	<380		380		ug/m3			03/16/18 15:37	419
trans-1,3-Dichloropropene	<380		380		ug/m3			03/16/18 15:37	419
Ethylbenzene	<360		360		ug/m3			03/16/18 15:37	419
2-Hexanone	<860		860		ug/m3			03/16/18 15:37	419
Methylene Chloride	<730		730		ug/m3			03/16/18 15:37	419
4-Methyl-2-pentanone (MIBK)	<860		860		ug/m3			03/16/18 15:37	419
Styrene	<360		360		ug/m3			03/16/18 15:37	419
1,1,2,2-Tetrachloroethane	<580		580		ug/m3			03/16/18 15:37	419
Tetrachloroethene	45000		570		ug/m3			03/16/18 15:37	419
Toluene	<320		320		ug/m3			03/16/18 15:37	419
1,1,1-Trichloroethane	<460		460		ug/m3			03/16/18 15:37	419
1,1,2-Trichloroethane	<460		460		ug/m3			03/16/18 15:37	419
Trichloroethene	670		450		ug/m3			03/16/18 15:37	419
Vinyl chloride	<210		210		ug/m3			03/16/18 15:37	419
Xylenes, Total	<1300		1300		ug/m3			03/16/18 15:37	419
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2100		2100		ppb v/v			03/16/18 15:37	419
Benzene	<84		84		ppb v/v			03/16/18 15:37	419
Dichlorobromomethane	<84		84		ppb v/v			03/16/18 15:37	419
Bromoform	<84		84		ppb v/v			03/16/18 15:37	419

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-C

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-3

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<84		84		ppb v/v			03/16/18 15:37	419
2-Butanone (MEK)	<210		210		ppb v/v			03/16/18 15:37	419
Carbon disulfide	<210		210		ppb v/v			03/16/18 15:37	419
Carbon tetrachloride	<84		84		ppb v/v			03/16/18 15:37	419
Chlorobenzene	<84		84		ppb v/v			03/16/18 15:37	419
Chloroethane	<210		210		ppb v/v			03/16/18 15:37	419
Chloroform	<84		84		ppb v/v			03/16/18 15:37	419
Chloromethane	<210		210		ppb v/v			03/16/18 15:37	419
Chlorodibromomethane	<84		84		ppb v/v			03/16/18 15:37	419
1,1-Dichloroethane	<84		84		ppb v/v			03/16/18 15:37	419
1,2-Dichloroethane	<84		84		ppb v/v			03/16/18 15:37	419
cis-1,2-Dichloroethene	<84		84		ppb v/v			03/16/18 15:37	419
trans-1,2-Dichloroethene	<84		84		ppb v/v			03/16/18 15:37	419
1,1-Dichloroethene	<84		84		ppb v/v			03/16/18 15:37	419
1,2-Dichloropropane	<84		84		ppb v/v			03/16/18 15:37	419
cis-1,3-Dichloropropene	<84		84		ppb v/v			03/16/18 15:37	419
trans-1,3-Dichloropropene	<84		84		ppb v/v			03/16/18 15:37	419
Ethylbenzene	<84		84		ppb v/v			03/16/18 15:37	419
2-Hexanone	<210		210		ppb v/v			03/16/18 15:37	419
Methylene Chloride	<210		210		ppb v/v			03/16/18 15:37	419
4-Methyl-2-pentanone (MIBK)	<210		210		ppb v/v			03/16/18 15:37	419
Styrene	<84		84		ppb v/v			03/16/18 15:37	419
1,1,2,2-Tetrachloroethane	<84		84		ppb v/v			03/16/18 15:37	419
Tetrachloroethene	6600		84		ppb v/v			03/16/18 15:37	419
Toluene	<84		84		ppb v/v			03/16/18 15:37	419
1,1,1-Trichloroethane	<84		84		ppb v/v			03/16/18 15:37	419
1,1,2-Trichloroethane	<84		84		ppb v/v			03/16/18 15:37	419
Trichloroethene	130		84		ppb v/v			03/16/18 15:37	419
Vinyl chloride	<84		84		ppb v/v			03/16/18 15:37	419
Xylenes, Total	<290		290		ppb v/v			03/16/18 15:37	419

Client Sample ID: TS-SS-CD

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5400		5400		ug/m3			03/16/18 16:30	451
Benzene	<290		290		ug/m3			03/16/18 16:30	451
Dichlorobromomethane	<600		600		ug/m3			03/16/18 16:30	451
Bromoform	<930		930		ug/m3			03/16/18 16:30	451
Bromomethane	<350		350		ug/m3			03/16/18 16:30	451
2-Butanone (MEK)	<670		670		ug/m3			03/16/18 16:30	451
Carbon disulfide	<700		700		ug/m3			03/16/18 16:30	451
Carbon tetrachloride	<570		570		ug/m3			03/16/18 16:30	451
Chlorobenzene	<420		420		ug/m3			03/16/18 16:30	451
Chloroethane	<600		600		ug/m3			03/16/18 16:30	451
Chloroform	<440		440		ug/m3			03/16/18 16:30	451

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-CD

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	<470		470		ug/m ³			03/16/18 16:30	451
Chlorodibromomethane	<770		770		ug/m ³			03/16/18 16:30	451
1,1-Dichloroethane	<370		370		ug/m ³			03/16/18 16:30	451
1,2-Dichloroethane	<370		370		ug/m ³			03/16/18 16:30	451
cis-1,2-Dichloroethene	<360		360		ug/m ³			03/16/18 16:30	451
trans-1,2-Dichloroethene	<360		360		ug/m ³			03/16/18 16:30	451
1,1-Dichloroethene	<360		360		ug/m ³			03/16/18 16:30	451
1,2-Dichloropropane	<420		420		ug/m ³			03/16/18 16:30	451
cis-1,3-Dichloropropene	<410		410		ug/m ³			03/16/18 16:30	451
trans-1,3-Dichloropropene	<410		410		ug/m ³			03/16/18 16:30	451
Ethylbenzene	<390		390		ug/m ³			03/16/18 16:30	451
2-Hexanone	<920		920		ug/m ³			03/16/18 16:30	451
Methylene Chloride	<780		780		ug/m ³			03/16/18 16:30	451
4-Methyl-2-pentanone (MIBK)	<920		920		ug/m ³			03/16/18 16:30	451
Styrene	<380		380		ug/m ³			03/16/18 16:30	451
1,1,2,2-Tetrachloroethane	<620		620		ug/m ³			03/16/18 16:30	451
Tetrachloroethene	49000			610	ug/m ³			03/16/18 16:30	451
Toluene	<340		340		ug/m ³			03/16/18 16:30	451
1,1,1-Trichloroethane	<490		490		ug/m ³			03/16/18 16:30	451
1,1,2-Trichloroethane	<490		490		ug/m ³			03/16/18 16:30	451
Trichloroethene	770			480	ug/m ³			03/16/18 16:30	451
Vinyl chloride	<230		230		ug/m ³			03/16/18 16:30	451
Xylenes, Total	<1400		1400		ug/m ³			03/16/18 16:30	451
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2300		2300		ppb v/v			03/16/18 16:30	451
Benzene	<90		90		ppb v/v			03/16/18 16:30	451
Dichlorobromomethane	<90		90		ppb v/v			03/16/18 16:30	451
Bromoform	<90		90		ppb v/v			03/16/18 16:30	451
Bromomethane	<90		90		ppb v/v			03/16/18 16:30	451
2-Butanone (MEK)	<230		230		ppb v/v			03/16/18 16:30	451
Carbon disulfide	<230		230		ppb v/v			03/16/18 16:30	451
Carbon tetrachloride	<90		90		ppb v/v			03/16/18 16:30	451
Chlorobenzene	<90		90		ppb v/v			03/16/18 16:30	451
Chloroethane	<230		230		ppb v/v			03/16/18 16:30	451
Chloroform	<90		90		ppb v/v			03/16/18 16:30	451
Chloromethane	<230		230		ppb v/v			03/16/18 16:30	451
Chlorodibromomethane	<90		90		ppb v/v			03/16/18 16:30	451
1,1-Dichloroethane	<90		90		ppb v/v			03/16/18 16:30	451
1,2-Dichloroethane	<90		90		ppb v/v			03/16/18 16:30	451
cis-1,2-Dichloroethene	<90		90		ppb v/v			03/16/18 16:30	451
trans-1,2-Dichloroethene	<90		90		ppb v/v			03/16/18 16:30	451
1,1-Dichloroethene	<90		90		ppb v/v			03/16/18 16:30	451
1,2-Dichloropropane	<90		90		ppb v/v			03/16/18 16:30	451
cis-1,3-Dichloropropene	<90		90		ppb v/v			03/16/18 16:30	451
trans-1,3-Dichloropropene	<90		90		ppb v/v			03/16/18 16:30	451
Ethylbenzene	<90		90		ppb v/v			03/16/18 16:30	451
2-Hexanone	<230		230		ppb v/v			03/16/18 16:30	451
Methylene Chloride	<230		230		ppb v/v			03/16/18 16:30	451

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-CD

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<230		230		ppb v/v			03/16/18 16:30	451
Styrene	<90		90		ppb v/v			03/16/18 16:30	451
1,1,2,2-Tetrachloroethane	<90		90		ppb v/v			03/16/18 16:30	451
Tetrachloroethylene	7200		90		ppb v/v			03/16/18 16:30	451
Toluene	<90		90		ppb v/v			03/16/18 16:30	451
1,1,1-Trichloroethane	<90		90		ppb v/v			03/16/18 16:30	451
1,1,2-Trichloroethane	<90		90		ppb v/v			03/16/18 16:30	451
Trichloroethylene	140		90		ppb v/v			03/16/18 16:30	451
Vinyl chloride	<90		90		ppb v/v			03/16/18 16:30	451
Xylenes, Total	<320		320		ppb v/v			03/16/18 16:30	451

Client Sample ID: TS-SS-D

Date Collected: 03/12/18 17:06

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	290		49		ug/m3			03/16/18 17:23	4.13
Benzene	<2.6		2.6		ug/m3			03/16/18 17:23	4.13
Dichlorobromomethane	<5.5		5.5		ug/m3			03/16/18 17:23	4.13
Bromoform	<8.5		8.5		ug/m3			03/16/18 17:23	4.13
Bromomethane	<3.2		3.2		ug/m3			03/16/18 17:23	4.13
2-Butanone (MEK)	14		6.1		ug/m3			03/16/18 17:23	4.13
Carbon disulfide	<6.4		6.4		ug/m3			03/16/18 17:23	4.13
Carbon tetrachloride	<5.2		5.2		ug/m3			03/16/18 17:23	4.13
Chlorobenzene	<3.8		3.8		ug/m3			03/16/18 17:23	4.13
Chloroethane	<5.4		5.4		ug/m3			03/16/18 17:23	4.13
Chloroform	<4.0		4.0		ug/m3			03/16/18 17:23	4.13
Chloromethane	<4.3		4.3		ug/m3			03/16/18 17:23	4.13
Chlorodibromomethane	<7.0		7.0		ug/m3			03/16/18 17:23	4.13
1,1-Dichloroethane	<3.3		3.3		ug/m3			03/16/18 17:23	4.13
1,2-Dichloroethane	<3.3		3.3		ug/m3			03/16/18 17:23	4.13
cis-1,2-Dichloroethylene	<3.3		3.3		ug/m3			03/16/18 17:23	4.13
trans-1,2-Dichloroethylene	<3.3		3.3		ug/m3			03/16/18 17:23	4.13
1,1-Dichloroethene	<3.3		3.3		ug/m3			03/16/18 17:23	4.13
1,2-Dichloropropane	<3.8		3.8		ug/m3			03/16/18 17:23	4.13
cis-1,3-Dichloropropene	<3.7		3.7		ug/m3			03/16/18 17:23	4.13
trans-1,3-Dichloropropene	<3.7		3.7		ug/m3			03/16/18 17:23	4.13
Ethylbenzene	<3.6		3.6		ug/m3			03/16/18 17:23	4.13
2-Hexanone	<8.5		8.5		ug/m3			03/16/18 17:23	4.13
Methylene Chloride	7.5		7.2		ug/m3			03/16/18 17:23	4.13
4-Methyl-2-pentanone (MIBK)	<8.5		8.5		ug/m3			03/16/18 17:23	4.13
Styrene	<3.5		3.5		ug/m3			03/16/18 17:23	4.13
1,1,2,2-Tetrachloroethane	<5.7		5.7		ug/m3			03/16/18 17:23	4.13
Tetrachloroethylene	420		5.6		ug/m3			03/16/18 17:23	4.13
Toluene	18		3.1		ug/m3			03/16/18 17:23	4.13
1,1,1-Trichloroethane	<4.5		4.5		ug/m3			03/16/18 17:23	4.13
1,1,2-Trichloroethane	<4.5		4.5		ug/m3			03/16/18 17:23	4.13

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-D

Date Collected: 03/12/18 17:06

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<4.4		4.4		ug/m ³			03/16/18 17:23	4.13
Vinyl chloride	2.8		2.1		ug/m ³			03/16/18 17:23	4.13
Xylenes, Total	<13		13		ug/m ³			03/16/18 17:23	4.13
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	120		21		ppb v/v			03/16/18 17:23	4.13
Benzene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Dichlorobromomethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Bromoform	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Bromomethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
2-Butanone (MEK)	4.6		2.1		ppb v/v			03/16/18 17:23	4.13
Carbon disulfide	<2.1		2.1		ppb v/v			03/16/18 17:23	4.13
Carbon tetrachloride	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Chlorobenzene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Chloroethane	<2.1		2.1		ppb v/v			03/16/18 17:23	4.13
Chloroform	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Chloromethane	<2.1		2.1		ppb v/v			03/16/18 17:23	4.13
Chlorodibromomethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,1-Dichloroethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,2-Dichloroethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
cis-1,2-Dichloroethene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
trans-1,2-Dichloroethene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,1-Dichloroethene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,2-Dichloropropane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
cis-1,3-Dichloropropene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
trans-1,3-Dichloropropene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Ethylbenzene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
2-Hexanone	<2.1		2.1		ppb v/v			03/16/18 17:23	4.13
Methylene Chloride	2.1		2.1		ppb v/v			03/16/18 17:23	4.13
4-Methyl-2-pentanone (MIBK)	<2.1		2.1		ppb v/v			03/16/18 17:23	4.13
Styrene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,1,2,2-Tetrachloroethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Tetrachloroethene	62		0.83		ppb v/v			03/16/18 17:23	4.13
Toluene	4.7		0.83		ppb v/v			03/16/18 17:23	4.13
1,1,1-Trichloroethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
1,1,2-Trichloroethane	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Trichloroethene	<0.83		0.83		ppb v/v			03/16/18 17:23	4.13
Vinyl chloride	1.1		0.83		ppb v/v			03/16/18 17:23	4.13
Xylenes, Total	<2.9		2.9		ppb v/v			03/16/18 17:23	4.13

Client Sample ID: TS-SS-E

Date Collected: 03/12/18 18:30

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<180		180		ug/m ³			03/16/18 18:15	14.8
Benzene	<9.5		9.5		ug/m ³			03/16/18 18:15	14.8

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-E

Date Collected: 03/12/18 18:30

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	<20		20		ug/m ³			03/16/18 18:15	14.8
Bromoform	<31		31		ug/m ³			03/16/18 18:15	14.8
Bromomethane	<11		11		ug/m ³			03/16/18 18:15	14.8
2-Butanone (MEK)	<22		22		ug/m ³			03/16/18 18:15	14.8
Carbon disulfide	<23		23		ug/m ³			03/16/18 18:15	14.8
Carbon tetrachloride	<19		19		ug/m ³			03/16/18 18:15	14.8
Chlorobenzene	<14		14		ug/m ³			03/16/18 18:15	14.8
Chloroethane	<20		20		ug/m ³			03/16/18 18:15	14.8
Chloroform	<14		14		ug/m ³			03/16/18 18:15	14.8
Chloromethane	<15		15		ug/m ³			03/16/18 18:15	14.8
Chlorodibromomethane	<25		25		ug/m ³			03/16/18 18:15	14.8
1,1-Dichloroethane	<12		12		ug/m ³			03/16/18 18:15	14.8
1,2-Dichloroethane	<12		12		ug/m ³			03/16/18 18:15	14.8
cis-1,2-Dichloroethene	<12		12		ug/m ³			03/16/18 18:15	14.8
trans-1,2-Dichloroethene	<12		12		ug/m ³			03/16/18 18:15	14.8
1,1-Dichloroethene	<12		12		ug/m ³			03/16/18 18:15	14.8
1,2-Dichloropropane	<14		14		ug/m ³			03/16/18 18:15	14.8
cis-1,3-Dichloropropene	<13		13		ug/m ³			03/16/18 18:15	14.8
trans-1,3-Dichloropropene	<13		13		ug/m ³			03/16/18 18:15	14.8
Ethylbenzene	<13		13		ug/m ³			03/16/18 18:15	14.8
2-Hexanone	<30		30		ug/m ³			03/16/18 18:15	14.8
Methylene Chloride	<26		26		ug/m ³			03/16/18 18:15	14.8
4-Methyl-2-pentanone (MIBK)	<30		30		ug/m ³			03/16/18 18:15	14.8
Styrene	<13		13		ug/m ³			03/16/18 18:15	14.8
1,1,2,2-Tetrachloroethane	<20		20		ug/m ³			03/16/18 18:15	14.8
Tetrachloroethene	2600		20		ug/m ³			03/16/18 18:15	14.8
Toluene	<11		11		ug/m ³			03/16/18 18:15	14.8
1,1,1-Trichloroethane	<16		16		ug/m ³			03/16/18 18:15	14.8
1,1,2-Trichloroethane	<16		16		ug/m ³			03/16/18 18:15	14.8
Trichloroethene	<16		16		ug/m ³			03/16/18 18:15	14.8
Vinyl chloride	<7.6		7.6		ug/m ³			03/16/18 18:15	14.8
Xylenes, Total	<45		45		ug/m ³			03/16/18 18:15	14.8

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<74		74		ppb v/v			03/16/18 18:15	14.8
Benzene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Dichlorobromomethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Bromoform	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Bromomethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
2-Butanone (MEK)	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Carbon disulfide	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Carbon tetrachloride	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Chlorobenzene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Chloroethane	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Chloroform	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Chloromethane	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Chlorodibromomethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,1-Dichloroethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,2-Dichloroethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-E

Date Collected: 03/12/18 18:30

Date Received: 03/15/18 10:40

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42610-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
trans-1,2-Dichloroethene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,1-Dichloroethene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,2-Dichloropropane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
cis-1,3-Dichloropropene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
trans-1,3-Dichloropropene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Ethylbenzene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
2-Hexanone	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Methylene Chloride	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
4-Methyl-2-pentanone (MIBK)	<7.4		7.4		ppb v/v			03/16/18 18:15	14.8
Styrene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,1,2,2-Tetrachloroethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Tetrachloroethene	380		3.0		ppb v/v			03/16/18 18:15	14.8
Toluene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,1,1-Trichloroethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
1,1,2-Trichloroethane	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Trichloroethene	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Vinyl chloride	<3.0		3.0		ppb v/v			03/16/18 18:15	14.8
Xylenes, Total	<10		10		ppb v/v			03/16/18 18:15	14.8

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-127438/5

Matrix: Air

Analysis Batch: 127438

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

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<12		12		ug/m3			03/16/18 12:18	1
Benzene	<0.64		0.64		ug/m3			03/16/18 12:18	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/16/18 12:18	1
Bromoform	<2.1		2.1		ug/m3			03/16/18 12:18	1
Bromomethane	<0.78		0.78		ug/m3			03/16/18 12:18	1
2-Butanone (MEK)	<1.5		1.5		ug/m3			03/16/18 12:18	1
Carbon disulfide	<1.6		1.6		ug/m3			03/16/18 12:18	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/16/18 12:18	1
Chlorobenzene	<0.92		0.92		ug/m3			03/16/18 12:18	1
Chloroethane	<1.3		1.3		ug/m3			03/16/18 12:18	1
Chloroform	<0.98		0.98		ug/m3			03/16/18 12:18	1
Chloromethane	<1.0		1.0		ug/m3			03/16/18 12:18	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/16/18 12:18	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/16/18 12:18	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/16/18 12:18	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 12:18	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 12:18	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/16/18 12:18	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/16/18 12:18	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/16/18 12:18	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/16/18 12:18	1
Ethylbenzene	<0.87		0.87		ug/m3			03/16/18 12:18	1
2-Hexanone	<2.0		2.0		ug/m3			03/16/18 12:18	1
Methylene Chloride	<1.7		1.7		ug/m3			03/16/18 12:18	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/16/18 12:18	1
Styrene	<0.85		0.85		ug/m3			03/16/18 12:18	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/16/18 12:18	1
Tetrachloroethene	<1.4		1.4		ug/m3			03/16/18 12:18	1
Toluene	<0.75		0.75		ug/m3			03/16/18 12:18	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/16/18 12:18	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/16/18 12:18	1
Trichloroethene	<1.1		1.1		ug/m3			03/16/18 12:18	1
Vinyl chloride	<0.51		0.51		ug/m3			03/16/18 12:18	1
Xylenes, Total	<3.0		3.0		ug/m3			03/16/18 12:18	1

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Acetone	<5.0		5.0		ppb v/v			03/16/18 12:18	1
Benzene	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Bromoform	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Bromomethane	<0.20		0.20		ppb v/v			03/16/18 12:18	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			03/16/18 12:18	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/16/18 12:18	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Chloroethane	<0.50		0.50		ppb v/v			03/16/18 12:18	1
Chloroform	<0.20		0.20		ppb v/v			03/16/18 12:18	1
Chloromethane	<0.50		0.50		ppb v/v			03/16/18 12:18	1

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-127438/5

Matrix: Air

Analysis Batch: 127438

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

Analyte	MB	MB	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier									
Chlorodibromomethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,1-Dichloroethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,2-Dichloroethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
cis-1,2-Dichloroethene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
trans-1,2-Dichloroethene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,1-Dichloroethene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,2-Dichloropropane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
cis-1,3-Dichloropropene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
trans-1,3-Dichloropropene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Ethylbenzene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
2-Hexanone	<0.50		0.50		0.50	ppb v/v			03/16/18 12:18		1
Methylene Chloride	<0.50		0.50		0.50	ppb v/v			03/16/18 12:18		1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		0.50	ppb v/v			03/16/18 12:18		1
Styrene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,1,2,2-Tetrachloroethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Tetrachloroethene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Toluene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,1,1-Trichloroethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
1,1,2-Trichloroethane	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Trichloroethene	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Vinyl chloride	<0.20		0.20		0.20	ppb v/v			03/16/18 12:18		1
Xylenes, Total	<0.70		0.70		0.70	ppb v/v			03/16/18 12:18		1

Lab Sample ID: LCS 200-127438/3

Matrix: Air

Analysis Batch: 127438

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

Analyte	Spike	LCS	LCS	%Rec.			Limits
	Added	Result	Qualifier	Unit	D	%Rec	
Acetone	23.7	23.2		ug/m3		98	64 - 136
Benzene	31.9	29.0		ug/m3		91	67 - 127
Dichlorobromomethane	67.0	63.5		ug/m3		95	69 - 129
Bromoform	103	97.5		ug/m3		94	34 - 170
Bromomethane	38.8	35.4		ug/m3		91	68 - 128
2-Butanone (MEK)	29.5	28.0		ug/m3		95	62 - 122
Carbon disulfide	31.1	31.1		ug/m3		100	81 - 141
Carbon tetrachloride	62.9	58.4		ug/m3		93	62 - 143
Chlorobenzene	46.0	41.1		ug/m3		89	68 - 128
Chloroethane	26.4	25.6		ug/m3		97	65 - 125
Chloroform	48.8	43.1		ug/m3		88	69 - 129
Chloromethane	20.6	19.0		ug/m3		92	57 - 126
Chlorodibromomethane	85.2	76.9		ug/m3		90	66 - 130
1,1-Dichloroethane	40.5	36.1		ug/m3		89	66 - 126
1,2-Dichloroethane	40.5	40.5		ug/m3		100	67 - 132
cis-1,2-Dichloroethene	39.6	34.1		ug/m3		86	67 - 127
trans-1,2-Dichloroethene	39.6	38.2		ug/m3		96	72 - 132
1,1-Dichloroethene	39.6	34.8		ug/m3		88	67 - 127
1,2-Dichloropropane	46.2	46.1		ug/m3		100	67 - 127
cis-1,3-Dichloropropene	45.4	44.0		ug/m3		97	70 - 130

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-127438/3

Matrix: Air

Analysis Batch: 127438

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
trans-1,3-Dichloropropene	45.4	44.1		ug/m3		97	69 - 129		
Ethylbenzene	43.4	37.8		ug/m3		87	68 - 128		
2-Hexanone	41.0	40.4		ug/m3		99	61 - 127		
Methylene Chloride	34.7	33.0		ug/m3		95	62 - 122		
4-Methyl-2-pentanone (MIBK)	41.0	40.5		ug/m3		99	62 - 130		
Styrene	42.6	38.1		ug/m3		89	68 - 128		
1,1,2,2-Tetrachloroethane	68.6	64.4		ug/m3		94	69 - 129		
Tetrachloroethene	67.8	60.2		ug/m3		89	70 - 130		
Toluene	37.7	34.6		ug/m3		92	67 - 127		
1,1,1-Trichloroethane	54.6	51.9		ug/m3		95	70 - 130		
1,1,2-Trichloroethane	54.6	54.5		ug/m3		100	69 - 129		
Trichloroethene	53.7	50.5		ug/m3		94	68 - 128		
Vinyl chloride	25.6	22.9		ug/m3		90	62 - 125		
Xylenes, Total	130	114		ug/m3		87	67 - 128		
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits	
	Added	Result	Qualifier						
Acetone	10	9.76		ppb v/v		98	64 - 136		
Benzene	10	9.07		ppb v/v		91	67 - 127		
Dichlorobromomethane	10	9.48		ppb v/v		95	69 - 129		
Bromoform	10	9.43		ppb v/v		94	34 - 170		
Bromomethane	10	9.13		ppb v/v		91	68 - 128		
2-Butanone (MEK)	10	9.51		ppb v/v		95	62 - 122		
Carbon disulfide	10	10.0		ppb v/v		100	81 - 141		
Carbon tetrachloride	10	9.28		ppb v/v		93	62 - 143		
Chlorobenzene	10	8.94		ppb v/v		89	68 - 128		
Chloroethane	10	9.69		ppb v/v		97	65 - 125		
Chloroform	10	8.82		ppb v/v		88	69 - 129		
Chloromethane	10	9.19		ppb v/v		92	57 - 126		
Chlorodibromomethane	10	9.02		ppb v/v		90	66 - 130		
1,1-Dichloroethane	10	8.92		ppb v/v		89	66 - 126		
1,2-Dichloroethane	10	9.99		ppb v/v		100	67 - 132		
cis-1,2-Dichloroethene	10	8.61		ppb v/v		86	67 - 127		
trans-1,2-Dichloroethene	10	9.63		ppb v/v		96	72 - 132		
1,1-Dichloroethene	10	8.78		ppb v/v		88	67 - 127		
1,2-Dichloropropane	10	9.97		ppb v/v		100	67 - 127		
cis-1,3-Dichloropropene	10	9.69		ppb v/v		97	70 - 130		
trans-1,3-Dichloropropene	10	9.71		ppb v/v		97	69 - 129		
Ethylbenzene	10	8.70		ppb v/v		87	68 - 128		
2-Hexanone	10	9.87		ppb v/v		99	61 - 127		
Methylene Chloride	10	9.51		ppb v/v		95	62 - 122		
4-Methyl-2-pentanone (MIBK)	10	9.90		ppb v/v		99	62 - 130		
Styrene	10	8.94		ppb v/v		89	68 - 128		
1,1,2,2-Tetrachloroethane	10	9.38		ppb v/v		94	69 - 129		
Tetrachloroethene	10	8.88		ppb v/v		89	70 - 130		
Toluene	10	9.19		ppb v/v		92	67 - 127		
1,1,1-Trichloroethane	10	9.51		ppb v/v		95	70 - 130		
1,1,2-Trichloroethane	10	9.98		ppb v/v		100	69 - 129		
Trichloroethene	10	9.40		ppb v/v		94	68 - 128		

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-127438/3

Matrix: Air

Analysis Batch: 127438

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Vinyl chloride	10	8.95		ppb v/v		90	62 - 125	
Xylenes, Total	30	26.2		ppb v/v		87	67 - 128	

QC Association Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Air - GC/MS VOA

Analysis Batch: 127438

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-42610-1	TS-SS-A	Total/NA	Air	TO-15	5
200-42610-2	TS-SS-B	Total/NA	Air	TO-15	6
200-42610-3	TS-SS-C	Total/NA	Air	TO-15	7
200-42610-4	TS-SS-CD	Total/NA	Air	TO-15	8
200-42610-5	TS-SS-D	Total/NA	Air	TO-15	9
200-42610-6	TS-SS-E	Total/NA	Air	TO-15	10
MB 200-127438/5	Method Blank	Total/NA	Air	TO-15	11
LCS 200-127438/3	Lab Control Sample	Total/NA	Air	TO-15	12

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Client Sample ID: TS-SS-A

Date Collected: 03/12/18 13:52

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		2	127438	03/16/18 13:52	A1B	TAL BUR

Client Sample ID: TS-SS-B

Date Collected: 03/12/18 14:56

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127438	03/16/18 14:44	A1B	TAL BUR

Client Sample ID: TS-SS-C

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-3

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		419	127438	03/16/18 15:37	A1B	TAL BUR

Client Sample ID: TS-SS-CD

Date Collected: 03/12/18 15:56

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		451	127438	03/16/18 16:30	A1B	TAL BUR

Client Sample ID: TS-SS-D

Date Collected: 03/12/18 17:06

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		4.13	127438	03/16/18 17:23	A1B	TAL BUR

Client Sample ID: TS-SS-E

Date Collected: 03/12/18 18:30

Date Received: 03/15/18 10:40

Lab Sample ID: 200-42610-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		14.8	127438	03/16/18 18:15	A1B	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TestAmerica Burlington

ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 13MAR18
ACTWTG: 16.35 LB
CAD: 859116/CAFE3108

BILL RECIPIENT

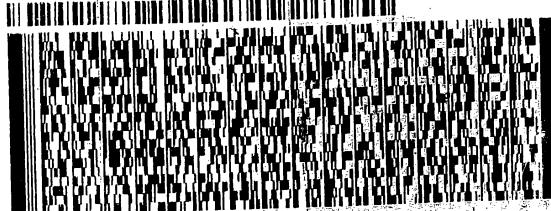
ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE

NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 13MAR18
ACTWTG: 15.60 LB
CAD: 859116/CAFE3108

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: ASHLAND



FedEx
Express



1 of 4
TRK# 0201 4149 3871 5512

MASTER

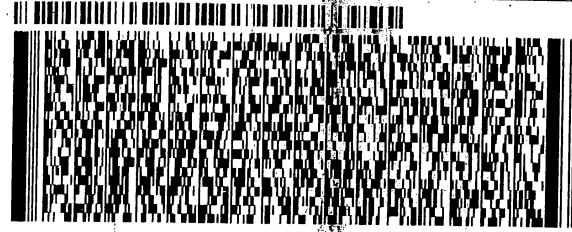
NC BTVA

WED - 14 MAR 3:00P
STANDARD OVERNIGHT

DSR
05403

VT-US BTV

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: ASHLAND



FedEx
Express



WED - 14 MAR 3:00P
STANDARD OVERNIGHT

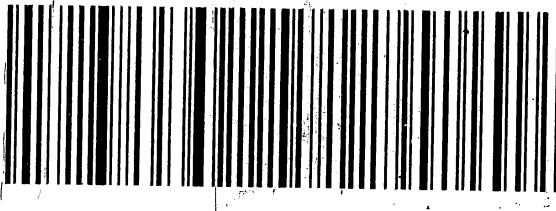
DSF12
05403
BTV

3 of 4
MPS# 0263 4149 3871 5534

Mstr# 4149 3871 5512

0201

NC BTVA

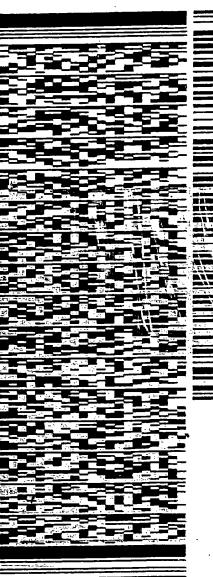


ORIGIN ID: MULA (678) 966-9991
GEORGE TAYLOR
TEST AMERICA ATLANTA
6500 MCDONOUGH DRIVE
NORCROSS, GA 30093
UNITED STATES US

SHIP DATE: 13MAR18
ACTWTG: 15.60 LB
CAD: 859116/CAFE3108

BILL RECIPIENT

TO SAMPLE RECEIVING
TESTAMERICA
30 COMMUNITY DR
SUITE 11
SOUTH BURLINGTON VT 05403
(802) 660-1990
REF: ASHLAND



FedEx
Express

J171016102001uv

4 of 4
MPS# 0263 4149 3871 5545
Mstr# 4149 3871 5512
0201
NC BTVA

WED - 14 MAR 3:00P
STANDARD OVERNIGHT

DSR

05403
BTV

VT-US

THE LEADER IN ENVIRONMENT

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 200-42610-1

Login Number: 42610

List Source: TestAmerica Burlington

List Number: 1

Creator: Hahl, Victoria L

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	427724, 427725	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		
Is the Field Sampler's name present on COC?	True	Kris Spikes, Mark Smith	
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.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A	No analysis requiring residual chlorine check assigned.	

Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42610-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18 *
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Burlington

30 Community Drive

Suite 11

South Burlington, VT 05403

Tel: (802)660-1990

TestAmerica Job ID: 200-42776-1

Client Project/Site: Ashland Alterman (Jonesboro)

For:

EHS Support, LLC

228 4th Avenue

Decatur, Georgia 30033

Attn: Kris Spikes



Authorized for release by:

3/30/2018 5:12:46 PM

Jerry Lanier, Project Manager I

(912)354-7858 e.3410

jerry.lanier@testamericainc.com

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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.

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Case Narrative

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Job ID: 200-42776-1

Laboratory: TestAmerica Burlington

Narrative

CASE NARRATIVE

Client: EHS Support, LLC

Project: Ashland Alterman (Jonesboro)

Report Number: 200-42776-1

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 03/23/2018; the samples arrived in good condition, properly preserved and on ice.

During the canister pressure check performed upon receipt, the following sample was found to be received at ambient pressure: TS-OAS-U (200-42776-1). The associated flow controller was evaluated and was found to be outside the acceptable flow range as compared to the original set flow rate. The client was contacted, and the laboratory was instructed to proceed with analysis.

VOLATILE ORGANIC COMPOUNDS

Samples TS-OAS-U (200-42776-1), TS-OAS-D (200-42776-2), TS-IAS-B (200-42776-4), TS-IAS-C (200-42776-5), TS-IAS-D (200-42776-6) and TS-IAS-D-DUP (200-42776-7) were analyzed for Volatile Organic Compounds in accordance with EPA Method TO-15. The samples were analyzed on 03/28/2018 and 03/29/2018.

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

Sample Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
200-42776-1	TS-OAS-U	Air	03/20/18 17:15	03/23/18 10:20
200-42776-2	TS-OAS-D	Air	03/20/18 17:20	03/23/18 10:20
200-42776-4	TS-IAS-B	Air	03/20/18 17:30	03/23/18 10:20
200-42776-5	TS-IAS-C	Air	03/20/18 18:05	03/23/18 10:20
200-42776-6	TS-IAS-D	Air	03/20/18 18:10	03/23/18 10:20
200-42776-7	TS-IAS-D-DUP	Air	03/20/18 18:10	03/23/18 10:20

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TestAmerica Burlington

Method Summary

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Method	Method Description	Protocol	Laboratory
TO-15	Volatile Organic Compounds in Ambient Air	EPA	TAL BUR

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

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Definitions/Glossary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

□	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
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 (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

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Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-U

Lab Sample ID: 200-42776-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3		0.64		ug/m3	1		TO-15	Total/NA
Chloromethane	1.0		1.0		ug/m3	1		TO-15	Total/NA
Methylene Chloride	4.0		1.7		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	1.4		1.4		ug/m3	1		TO-15	Total/NA
Toluene	15		0.75		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.42		0.20		ppb v/v	1		TO-15	Total/NA
Chloromethane	0.49		0.50		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.2		0.50		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	0.21		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	4.0		0.20		ppb v/v	1		TO-15	Total/NA

Client Sample ID: TS-OAS-D

Lab Sample ID: 200-42776-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	12		12		ug/m3	1		TO-15	Total/NA
Benzene	2.7		0.64		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	2.8		1.5		ug/m3	1		TO-15	Total/NA
Ethylbenzene	1.1		0.87		ug/m3	1		TO-15	Total/NA
Methylene Chloride	3.6		1.7		ug/m3	1		TO-15	Total/NA
Toluene	7.6		0.75		ug/m3	1		TO-15	Total/NA
Xylenes, Total	4.8		3.0		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8		5.0		ppb v/v	1		TO-15	Total/NA
Benzene	0.85		0.20		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.94		0.50		ppb v/v	1		TO-15	Total/NA
Ethylbenzene	0.26		0.20		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	1.0		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	2.0		0.20		ppb v/v	1		TO-15	Total/NA
Xylenes, Total	1.1		0.70		ppb v/v	1		TO-15	Total/NA

Client Sample ID: TS-IAS-B

Lab Sample ID: 200-42776-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	41		12		ug/m3	1		TO-15	Total/NA
2-Butanone (MEK)	1.9		1.5		ug/m3	1		TO-15	Total/NA
Chloroform	2.4		0.98		ug/m3	1		TO-15	Total/NA
Chloromethane	1.3		1.0		ug/m3	1		TO-15	Total/NA
Tetrachloroethene	100		1.4		ug/m3	1		TO-15	Total/NA
Toluene	5.2		0.75		ug/m3	1		TO-15	Total/NA
Trichloroethene	4.9		1.1		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	17		5.0		ppb v/v	1		TO-15	Total/NA
2-Butanone (MEK)	0.64		0.50		ppb v/v	1		TO-15	Total/NA
Chloroform	0.50		0.20		ppb v/v	1		TO-15	Total/NA
Chloromethane	0.65		0.50		ppb v/v	1		TO-15	Total/NA
Tetrachloroethene	15		0.20		ppb v/v	1		TO-15	Total/NA
Toluene	1.4		0.20		ppb v/v	1		TO-15	Total/NA
Trichloroethene	0.90		0.20		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Detection Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-C

Lab Sample ID: 200-42776-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	1.5		1.5		ug/m3	1		TO-15	Total/NA
Chloromethane	1.2		1.0		ug/m3	1		TO-15	Total/NA
Toluene	0.88		0.75		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
2-Butanone (MEK)	0.50		0.50		ppb v/v	1		TO-15	Total/NA
Chloromethane	0.59		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	0.23		0.20		ppb v/v	1		TO-15	Total/NA

Client Sample ID: TS-IAS-D

Lab Sample ID: 200-42776-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.0		1.0		ug/m3	1		TO-15	Total/NA
Toluene	0.88		0.75		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.50		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	0.23		0.20		ppb v/v	1		TO-15	Total/NA

Client Sample ID: TS-IAS-D-DUP

Lab Sample ID: 200-42776-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	1.0		1.0		ug/m3	1		TO-15	Total/NA
Methylene Chloride	2.2		1.7		ug/m3	1		TO-15	Total/NA
Toluene	1.7		0.75		ug/m3	1		TO-15	Total/NA
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloromethane	0.49		0.50		ppb v/v	1		TO-15	Total/NA
Methylene Chloride	0.63		0.50		ppb v/v	1		TO-15	Total/NA
Toluene	0.44		0.20		ppb v/v	1		TO-15	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-U

Date Collected: 03/20/18 17:15

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-1

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m3			03/28/18 19:45	1
Benzene	1.3		0.64		ug/m3			03/28/18 19:45	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/28/18 19:45	1
Bromoform	<2.1		2.1		ug/m3			03/28/18 19:45	1
Bromomethane	<0.78		0.78		ug/m3			03/28/18 19:45	1
2-Butanone (MEK)	<1.5		1.5		ug/m3			03/28/18 19:45	1
Carbon disulfide	<1.6		1.6		ug/m3			03/28/18 19:45	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/28/18 19:45	1
Chlorobenzene	<0.92		0.92		ug/m3			03/28/18 19:45	1
Chloroethane	<1.3		1.3		ug/m3			03/28/18 19:45	1
Chloroform	<0.98		0.98		ug/m3			03/28/18 19:45	1
Chloromethane	1.0		1.0		ug/m3			03/28/18 19:45	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/28/18 19:45	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 19:45	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 19:45	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 19:45	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 19:45	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 19:45	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/28/18 19:45	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 19:45	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 19:45	1
Ethylbenzene	<0.87		0.87		ug/m3			03/28/18 19:45	1
2-Hexanone	<2.0		2.0		ug/m3			03/28/18 19:45	1
Methylene Chloride	4.0		1.7		ug/m3			03/28/18 19:45	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/28/18 19:45	1
Styrene	<0.85		0.85		ug/m3			03/28/18 19:45	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/28/18 19:45	1
Tetrachloroethene	1.4		1.4		ug/m3			03/28/18 19:45	1
Toluene	15		0.75		ug/m3			03/28/18 19:45	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 19:45	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 19:45	1
Trichloroethene	<1.1		1.1		ug/m3			03/28/18 19:45	1
Vinyl chloride	<0.51		0.51		ug/m3			03/28/18 19:45	1
Xylenes, Total	<3.0		3.0		ug/m3			03/28/18 19:45	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			03/28/18 19:45	1
Benzene	0.42		0.20		ppb v/v			03/28/18 19:45	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Bromoform	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Bromomethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			03/28/18 19:45	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/28/18 19:45	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Chloroethane	<0.50		0.50		ppb v/v			03/28/18 19:45	1
Chloroform	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Chloromethane	0.49		0.50		ppb v/v			03/28/18 19:45	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-U
Date Collected: 03/20/18 17:15
Date Received: 03/23/18 10:20
Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-1
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
2-Hexanone	<0.50		0.50		ppb v/v			03/28/18 19:45	1
Methylene Chloride	1.2		0.50		ppb v/v			03/28/18 19:45	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/28/18 19:45	1
Styrene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Tetrachloroethene	0.21		0.20		ppb v/v			03/28/18 19:45	1
Toluene	4.0		0.20		ppb v/v			03/28/18 19:45	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Trichloroethene	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/28/18 19:45	1
Xylenes, Total	<0.70		0.70		ppb v/v			03/28/18 19:45	1

Client Sample ID: TS-OAS-D

Lab Sample ID: 200-42776-2

Matrix: Air

Date Collected: 03/20/18 17:20

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	12		12		ug/m3			03/28/18 20:39	1
Benzene	2.7		0.64		ug/m3			03/28/18 20:39	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/28/18 20:39	1
Bromoform	<2.1		2.1		ug/m3			03/28/18 20:39	1
Bromomethane	<0.78		0.78		ug/m3			03/28/18 20:39	1
2-Butanone (MEK)	2.8		1.5		ug/m3			03/28/18 20:39	1
Carbon disulfide	<1.6		1.6		ug/m3			03/28/18 20:39	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/28/18 20:39	1
Chlorobenzene	<0.92		0.92		ug/m3			03/28/18 20:39	1
Chloroethane	<1.3		1.3		ug/m3			03/28/18 20:39	1
Chloroform	<0.98		0.98		ug/m3			03/28/18 20:39	1
Chloromethane	<1.0		1.0		ug/m3			03/28/18 20:39	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/28/18 20:39	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 20:39	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 20:39	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 20:39	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 20:39	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 20:39	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/28/18 20:39	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 20:39	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-D

Date Collected: 03/20/18 17:20

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 20:39	1
Ethylbenzene	1.1		0.87		ug/m3			03/28/18 20:39	1
2-Hexanone	<2.0		2.0		ug/m3			03/28/18 20:39	1
Methylene Chloride	3.6		1.7		ug/m3			03/28/18 20:39	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/28/18 20:39	1
Styrene	<0.85		0.85		ug/m3			03/28/18 20:39	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/28/18 20:39	1
Tetrachloroethene	<1.4		1.4		ug/m3			03/28/18 20:39	1
Toluene	7.6		0.75		ug/m3			03/28/18 20:39	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 20:39	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 20:39	1
Trichloroethene	<1.1		1.1		ug/m3			03/28/18 20:39	1
Vinyl chloride	<0.51		0.51		ug/m3			03/28/18 20:39	1
Xylenes, Total	4.8		3.0		ug/m3			03/28/18 20:39	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	4.8		5.0		ppb v/v			03/28/18 20:39	1
Benzene	0.85		0.20		ppb v/v			03/28/18 20:39	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Bromoform	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Bromomethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
2-Butanone (MEK)	0.94		0.50		ppb v/v			03/28/18 20:39	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/28/18 20:39	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Chloroethane	<0.50		0.50		ppb v/v			03/28/18 20:39	1
Chloroform	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Chloromethane	<0.50		0.50		ppb v/v			03/28/18 20:39	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Ethylbenzene	0.26		0.20		ppb v/v			03/28/18 20:39	1
2-Hexanone	<0.50		0.50		ppb v/v			03/28/18 20:39	1
Methylene Chloride	1.0		0.50		ppb v/v			03/28/18 20:39	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/28/18 20:39	1
Styrene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Tetrachloroethene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Toluene	2.0		0.20		ppb v/v			03/28/18 20:39	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Trichloroethene	<0.20		0.20		ppb v/v			03/28/18 20:39	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/28/18 20:39	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-D

Date Collected: 03/20/18 17:20

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-2

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	1.1		0.70		ppb v/v			03/28/18 20:39	1

Client Sample ID: TS-IAS-B

Date Collected: 03/20/18 17:30

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	41		12		ug/m3			03/28/18 22:28	1
Benzene	<0.64		0.64		ug/m3			03/28/18 22:28	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/28/18 22:28	1
Bromoform	<2.1		2.1		ug/m3			03/28/18 22:28	1
Bromomethane	<0.78		0.78		ug/m3			03/28/18 22:28	1
2-Butanone (MEK)	1.9		1.5		ug/m3			03/28/18 22:28	1
Carbon disulfide	<1.6		1.6		ug/m3			03/28/18 22:28	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/28/18 22:28	1
Chlorobenzene	<0.92		0.92		ug/m3			03/28/18 22:28	1
Chloroethane	<1.3		1.3		ug/m3			03/28/18 22:28	1
Chloroform	2.4		0.98		ug/m3			03/28/18 22:28	1
Chloromethane	1.3		1.0		ug/m3			03/28/18 22:28	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/28/18 22:28	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 22:28	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 22:28	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 22:28	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 22:28	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 22:28	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/28/18 22:28	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 22:28	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 22:28	1
Ethylbenzene	<0.87		0.87		ug/m3			03/28/18 22:28	1
2-Hexanone	<2.0		2.0		ug/m3			03/28/18 22:28	1
Methylene Chloride	<1.7		1.7		ug/m3			03/28/18 22:28	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/28/18 22:28	1
Styrene	<0.85		0.85		ug/m3			03/28/18 22:28	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/28/18 22:28	1
Tetrachloroethene	100		1.4		ug/m3			03/28/18 22:28	1
Toluene	5.2		0.75		ug/m3			03/28/18 22:28	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 22:28	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 22:28	1
Trichloroethene	4.9		1.1		ug/m3			03/28/18 22:28	1
Vinyl chloride	<0.51		0.51		ug/m3			03/28/18 22:28	1
Xylenes, Total	<3.0		3.0		ug/m3			03/28/18 22:28	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	17		5.0		ppb v/v			03/28/18 22:28	1
Benzene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Bromoform	<0.20		0.20		ppb v/v			03/28/18 22:28	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-B

Date Collected: 03/20/18 17:30

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-4

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
2-Butanone (MEK)	0.64		0.50		ppb v/v			03/28/18 22:28	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/28/18 22:28	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Chloroethane	<0.50		0.50		ppb v/v			03/28/18 22:28	1
Chloroform	0.50		0.20		ppb v/v			03/28/18 22:28	1
Chloromethane	0.65		0.50		ppb v/v			03/28/18 22:28	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
2-Hexanone	<0.50		0.50		ppb v/v			03/28/18 22:28	1
Methylene Chloride	<0.50		0.50		ppb v/v			03/28/18 22:28	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/28/18 22:28	1
Styrene	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Tetrachloroethene	15		0.20		ppb v/v			03/28/18 22:28	1
Toluene	1.4		0.20		ppb v/v			03/28/18 22:28	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Trichloroethene	0.90		0.20		ppb v/v			03/28/18 22:28	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/28/18 22:28	1
Xylenes, Total	<0.70		0.70		ppb v/v			03/28/18 22:28	1

Client Sample ID: TS-IAS-C

Date Collected: 03/20/18 18:05

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m3			03/28/18 23:21	1
Benzene	<0.64		0.64		ug/m3			03/28/18 23:21	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/28/18 23:21	1
Bromoform	<2.1		2.1		ug/m3			03/28/18 23:21	1
Bromomethane	<0.78		0.78		ug/m3			03/28/18 23:21	1
2-Butanone (MEK)	1.5		1.5		ug/m3			03/28/18 23:21	1
Carbon disulfide	<1.6		1.6		ug/m3			03/28/18 23:21	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/28/18 23:21	1
Chlorobenzene	<0.92		0.92		ug/m3			03/28/18 23:21	1
Chloroethane	<1.3		1.3		ug/m3			03/28/18 23:21	1
Chloroform	<0.98		0.98		ug/m3			03/28/18 23:21	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-C

Date Collected: 03/20/18 18:05

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-5

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.2		1.0		ug/m3			03/28/18 23:21	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/28/18 23:21	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 23:21	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 23:21	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 23:21	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 23:21	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 23:21	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/28/18 23:21	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 23:21	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 23:21	1
Ethylbenzene	<0.87		0.87		ug/m3			03/28/18 23:21	1
2-Hexanone	<2.0		2.0		ug/m3			03/28/18 23:21	1
Methylene Chloride	<1.7		1.7		ug/m3			03/28/18 23:21	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/28/18 23:21	1
Styrene	<0.85		0.85		ug/m3			03/28/18 23:21	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/28/18 23:21	1
Tetrachloroethene	<1.4		1.4		ug/m3			03/28/18 23:21	1
Toluene	0.88		0.75		ug/m3			03/28/18 23:21	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 23:21	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 23:21	1
Trichloroethene	<1.1		1.1		ug/m3			03/28/18 23:21	1
Vinyl chloride	<0.51		0.51		ug/m3			03/28/18 23:21	1
Xylenes, Total	<3.0		3.0		ug/m3			03/28/18 23:21	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			03/28/18 23:21	1
Benzene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Bromoform	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Bromomethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
2-Butanone (MEK)	0.50		0.50		ppb v/v			03/28/18 23:21	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/28/18 23:21	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Chloroethane	<0.50		0.50		ppb v/v			03/28/18 23:21	1
Chloroform	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Chloromethane	0.59		0.50		ppb v/v			03/28/18 23:21	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
2-Hexanone	<0.50		0.50		ppb v/v			03/28/18 23:21	1
Methylene Chloride	<0.50		0.50		ppb v/v			03/28/18 23:21	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-C

Lab Sample ID: 200-42776-5

Matrix: Air

Date Collected: 03/20/18 18:05

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/28/18 23:21	1
Styrene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Tetrachloroethene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Toluene	0.23		0.20		ppb v/v			03/28/18 23:21	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Trichloroethene	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/28/18 23:21	1
Xylenes, Total	<0.70		0.70		ppb v/v			03/28/18 23:21	1

Client Sample ID: TS-IAS-D

Lab Sample ID: 200-42776-6

Matrix: Air

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m3			03/29/18 00:15	1
Benzene	<0.64		0.64		ug/m3			03/29/18 00:15	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/29/18 00:15	1
Bromoform	<2.1		2.1		ug/m3			03/29/18 00:15	1
Bromomethane	<0.78		0.78		ug/m3			03/29/18 00:15	1
2-Butanone (MEK)	<1.5		1.5		ug/m3			03/29/18 00:15	1
Carbon disulfide	<1.6		1.6		ug/m3			03/29/18 00:15	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/29/18 00:15	1
Chlorobenzene	<0.92		0.92		ug/m3			03/29/18 00:15	1
Chloroethane	<1.3		1.3		ug/m3			03/29/18 00:15	1
Chloroform	<0.98		0.98		ug/m3			03/29/18 00:15	1
Chloromethane	1.0		1.0		ug/m3			03/29/18 00:15	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/29/18 00:15	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/29/18 00:15	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/29/18 00:15	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/29/18 00:15	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/29/18 00:15	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/29/18 00:15	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/29/18 00:15	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/29/18 00:15	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/29/18 00:15	1
Ethylbenzene	<0.87		0.87		ug/m3			03/29/18 00:15	1
2-Hexanone	<2.0		2.0		ug/m3			03/29/18 00:15	1
Methylene Chloride	<1.7		1.7		ug/m3			03/29/18 00:15	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/29/18 00:15	1
Styrene	<0.85		0.85		ug/m3			03/29/18 00:15	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/29/18 00:15	1
Tetrachloroethene	<1.4		1.4		ug/m3			03/29/18 00:15	1
Toluene	0.88		0.75		ug/m3			03/29/18 00:15	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/29/18 00:15	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/29/18 00:15	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-D

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-6

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichloroethene	<1.1		1.1		ug/m ³			03/29/18 00:15	1
Vinyl chloride	<0.51		0.51		ug/m ³			03/29/18 00:15	1
Xylenes, Total	<3.0		3.0		ug/m ³			03/29/18 00:15	1
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			03/29/18 00:15	1
Benzene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Bromoform	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Bromomethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			03/29/18 00:15	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/29/18 00:15	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Chloroethane	<0.50		0.50		ppb v/v			03/29/18 00:15	1
Chloroform	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Chloromethane	0.50		0.50		ppb v/v			03/29/18 00:15	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
2-Hexanone	<0.50		0.50		ppb v/v			03/29/18 00:15	1
Methylene Chloride	<0.50		0.50		ppb v/v			03/29/18 00:15	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/29/18 00:15	1
Styrene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Tetrachloroethene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Toluene	0.23		0.20		ppb v/v			03/29/18 00:15	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Trichloroethene	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/29/18 00:15	1
Xylenes, Total	<0.70		0.70		ppb v/v			03/29/18 00:15	1

Client Sample ID: TS-IAS-D-DUP

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m ³			03/29/18 01:10	1
Benzene	<0.64		0.64		ug/m ³			03/29/18 01:10	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-D-DUP

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-7

Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorobromomethane	<1.3		1.3		ug/m ³			03/29/18 01:10	1
Bromoform	<2.1		2.1		ug/m ³			03/29/18 01:10	1
Bromomethane	<0.78		0.78		ug/m ³			03/29/18 01:10	1
2-Butanone (MEK)	<1.5		1.5		ug/m ³			03/29/18 01:10	1
Carbon disulfide	<1.6		1.6		ug/m ³			03/29/18 01:10	1
Carbon tetrachloride	<1.3		1.3		ug/m ³			03/29/18 01:10	1
Chlorobenzene	<0.92		0.92		ug/m ³			03/29/18 01:10	1
Chloroethane	<1.3		1.3		ug/m ³			03/29/18 01:10	1
Chloroform	<0.98		0.98		ug/m ³			03/29/18 01:10	1
Chloromethane	1.0		1.0		ug/m ³			03/29/18 01:10	1
Chlorodibromomethane	<1.7		1.7		ug/m ³			03/29/18 01:10	1
1,1-Dichloroethane	<0.81		0.81		ug/m ³			03/29/18 01:10	1
1,2-Dichloroethane	<0.81		0.81		ug/m ³			03/29/18 01:10	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m ³			03/29/18 01:10	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m ³			03/29/18 01:10	1
1,1-Dichloroethene	<0.79		0.79		ug/m ³			03/29/18 01:10	1
1,2-Dichloropropane	<0.92		0.92		ug/m ³			03/29/18 01:10	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m ³			03/29/18 01:10	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m ³			03/29/18 01:10	1
Ethylbenzene	<0.87		0.87		ug/m ³			03/29/18 01:10	1
2-Hexanone	<2.0		2.0		ug/m ³			03/29/18 01:10	1
Methylene Chloride	2.2		1.7		ug/m ³			03/29/18 01:10	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m ³			03/29/18 01:10	1
Styrene	<0.85		0.85		ug/m ³			03/29/18 01:10	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m ³			03/29/18 01:10	1
Tetrachloroethene	<1.4		1.4		ug/m ³			03/29/18 01:10	1
Toluene	1.7		0.75		ug/m ³			03/29/18 01:10	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m ³			03/29/18 01:10	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m ³			03/29/18 01:10	1
Trichloroethene	<1.1		1.1		ug/m ³			03/29/18 01:10	1
Vinyl chloride	<0.51		0.51		ug/m ³			03/29/18 01:10	1
Xylenes, Total	<3.0		3.0		ug/m ³			03/29/18 01:10	1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			03/29/18 01:10	1
Benzene	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Bromoform	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Bromomethane	<0.20		0.20		ppb v/v			03/29/18 01:10	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			03/29/18 01:10	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/29/18 01:10	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Chloroethane	<0.50		0.50		ppb v/v			03/29/18 01:10	1
Chloroform	<0.20		0.20		ppb v/v			03/29/18 01:10	1
Chloromethane	0.49		0.50		ppb v/v			03/29/18 01:10	1
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/29/18 01:10	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/29/18 01:10	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/29/18 01:10	1

TestAmerica Burlington

Client Sample Results

Client: EHS Support, LLC
 Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-IAS-D-DUP
Date Collected: 03/20/18 18:10
Date Received: 03/23/18 10:20
Sample Container: Summa Canister 6L

Lab Sample ID: 200-42776-7
Matrix: Air

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
1,1-Dichloroethene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
1,2-Dichloropropane	<0.20		0.20		ppb v/v		03/29/18 01:10		1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Ethylbenzene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
2-Hexanone	<0.50		0.50		ppb v/v		03/29/18 01:10		1
Methylene Chloride	0.63		0.50		ppb v/v		03/29/18 01:10		1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v		03/29/18 01:10		1
Styrene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Tetrachloroethene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Toluene	0.44		0.20		ppb v/v		03/29/18 01:10		1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v		03/29/18 01:10		1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Trichloroethene	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Vinyl chloride	<0.20		0.20		ppb v/v		03/29/18 01:10		1
Xylenes, Total	<0.70		0.70		ppb v/v		03/29/18 01:10		1

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air

Lab Sample ID: MB 200-127856/4

Matrix: Air

Analysis Batch: 127856

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<12		12		ug/m3			03/28/18 14:34	1
Benzene	<0.64		0.64		ug/m3			03/28/18 14:34	1
Dichlorobromomethane	<1.3		1.3		ug/m3			03/28/18 14:34	1
Bromoform	<2.1		2.1		ug/m3			03/28/18 14:34	1
Bromomethane	<0.78		0.78		ug/m3			03/28/18 14:34	1
2-Butanone (MEK)	<1.5		1.5		ug/m3			03/28/18 14:34	1
Carbon disulfide	<1.6		1.6		ug/m3			03/28/18 14:34	1
Carbon tetrachloride	<1.3		1.3		ug/m3			03/28/18 14:34	1
Chlorobenzene	<0.92		0.92		ug/m3			03/28/18 14:34	1
Chloroethane	<1.3		1.3		ug/m3			03/28/18 14:34	1
Chloroform	<0.98		0.98		ug/m3			03/28/18 14:34	1
Chloromethane	<1.0		1.0		ug/m3			03/28/18 14:34	1
Chlorodibromomethane	<1.7		1.7		ug/m3			03/28/18 14:34	1
1,1-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 14:34	1
1,2-Dichloroethane	<0.81		0.81		ug/m3			03/28/18 14:34	1
cis-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 14:34	1
trans-1,2-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 14:34	1
1,1-Dichloroethene	<0.79		0.79		ug/m3			03/28/18 14:34	1
1,2-Dichloropropane	<0.92		0.92		ug/m3			03/28/18 14:34	1
cis-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 14:34	1
trans-1,3-Dichloropropene	<0.91		0.91		ug/m3			03/28/18 14:34	1
Ethylbenzene	<0.87		0.87		ug/m3			03/28/18 14:34	1
2-Hexanone	<2.0		2.0		ug/m3			03/28/18 14:34	1
Methylene Chloride	<1.7		1.7		ug/m3			03/28/18 14:34	1
4-Methyl-2-pentanone (MIBK)	<2.0		2.0		ug/m3			03/28/18 14:34	1
Styrene	<0.85		0.85		ug/m3			03/28/18 14:34	1
1,1,2,2-Tetrachloroethane	<1.4		1.4		ug/m3			03/28/18 14:34	1
Tetrachloroethene	<1.4		1.4		ug/m3			03/28/18 14:34	1
Toluene	<0.75		0.75		ug/m3			03/28/18 14:34	1
1,1,1-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 14:34	1
1,1,2-Trichloroethane	<1.1		1.1		ug/m3			03/28/18 14:34	1
Trichloroethene	<1.1		1.1		ug/m3			03/28/18 14:34	1
Vinyl chloride	<0.51		0.51		ug/m3			03/28/18 14:34	1
Xylenes, Total	<3.0		3.0		ug/m3			03/28/18 14:34	1

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5.0		5.0		ppb v/v			03/28/18 14:34	1
Benzene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Dichlorobromomethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Bromoform	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Bromomethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
2-Butanone (MEK)	<0.50		0.50		ppb v/v			03/28/18 14:34	1
Carbon disulfide	<0.50		0.50		ppb v/v			03/28/18 14:34	1
Carbon tetrachloride	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Chlorobenzene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Chloroethane	<0.50		0.50		ppb v/v			03/28/18 14:34	1
Chloroform	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Chloromethane	<0.50		0.50		ppb v/v			03/28/18 14:34	1

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: MB 200-127856/4

Matrix: Air

Analysis Batch: 127856

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorodibromomethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,1-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,2-Dichloroethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
cis-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
trans-1,2-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,1-Dichloroethene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,2-Dichloropropane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
cis-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
trans-1,3-Dichloropropene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Ethylbenzene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
2-Hexanone	<0.50		0.50		ppb v/v			03/28/18 14:34	1
Methylene Chloride	<0.50		0.50		ppb v/v			03/28/18 14:34	1
4-Methyl-2-pentanone (MIBK)	<0.50		0.50		ppb v/v			03/28/18 14:34	1
Styrene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,1,2,2-Tetrachloroethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Tetrachloroethene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Toluene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,1,1-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
1,1,2-Trichloroethane	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Trichloroethene	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Vinyl chloride	<0.20		0.20		ppb v/v			03/28/18 14:34	1
Xylenes, Total	<0.70		0.70		ppb v/v			03/28/18 14:34	1

Lab Sample ID: LCS 200-127856/3

Matrix: Air

Analysis Batch: 127856

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

Analyte	Spike	LCS	LCS	%Rec.			
	Added	Result	Qualifier	Unit	D	%Rec	Limits
Acetone	23.7	19.2		ug/m3		81	64 - 136
Benzene	31.9	27.6		ug/m3		86	67 - 127
Dichlorobromomethane	67.0	60.2		ug/m3		90	69 - 129
Bromoform	103	95.1		ug/m3		92	34 - 170
Bromomethane	38.8	31.6		ug/m3		81	68 - 128
2-Butanone (MEK)	29.5	25.0		ug/m3		85	62 - 122
Carbon disulfide	31.1	29.6		ug/m3		95	81 - 141
Carbon tetrachloride	62.9	59.7		ug/m3		95	62 - 143
Chlorobenzene	46.0	40.6		ug/m3		88	68 - 128
Chloroethane	26.4	20.9		ug/m3		79	65 - 125
Chloroform	48.8	43.2		ug/m3		89	69 - 129
Chloromethane	20.6	15.4		ug/m3		74	57 - 126
Chlorodibromomethane	85.2	77.2		ug/m3		91	66 - 130
1,1-Dichloroethane	40.5	34.4		ug/m3		85	66 - 126
1,2-Dichloroethane	40.5	38.8		ug/m3		96	67 - 132
cis-1,2-Dichloroethene	39.6	33.5		ug/m3		85	67 - 127
trans-1,2-Dichloroethene	39.6	35.9		ug/m3		91	72 - 132
1,1-Dichloroethene	39.6	34.2		ug/m3		86	67 - 127
1,2-Dichloropropane	46.2	37.2		ug/m3		81	67 - 127
cis-1,3-Dichloropropene	45.4	40.5		ug/m3		89	70 - 130

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-127856/3

Matrix: Air

Analysis Batch: 127856

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

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
trans-1,3-Dichloropropene	45.4	42.2		ug/m3		93	69 - 129	
Ethylbenzene	43.4	38.8		ug/m3		89	68 - 128	
2-Hexanone	41.0	32.3		ug/m3		79	61 - 127	
Methylene Chloride	34.7	27.8		ug/m3		80	62 - 122	
4-Methyl-2-pentanone (MIBK)	41.0	33.3		ug/m3		81	62 - 130	
Styrene	42.6	40.3		ug/m3		95	68 - 128	
1,1,2,2-Tetrachloroethane	68.6	58.1		ug/m3		85	69 - 129	
Tetrachloroethene	67.8	60.9		ug/m3		90	70 - 130	
Toluene	37.7	34.3		ug/m3		91	67 - 127	
1,1,1-Trichloroethane	54.6	51.4		ug/m3		94	70 - 130	
1,1,2-Trichloroethane	54.6	48.0		ug/m3		88	69 - 129	
Trichloroethene	53.7	49.3		ug/m3		92	68 - 128	
Vinyl chloride	25.6	19.6		ug/m3		77	62 - 125	
Xylenes, Total	130	118		ug/m3		91	67 - 128	
Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec.	Limits
	Added	Result	Qualifier					
Acetone	10	8.07		ppb v/v		81	64 - 136	
Benzene	10	8.64		ppb v/v		86	67 - 127	
Dichlorobromomethane	10	8.99		ppb v/v		90	69 - 129	
Bromoform	10	9.20		ppb v/v		92	34 - 170	
Bromomethane	10	8.14		ppb v/v		81	68 - 128	
2-Butanone (MEK)	10	8.49		ppb v/v		85	62 - 122	
Carbon disulfide	10	9.52		ppb v/v		95	81 - 141	
Carbon tetrachloride	10	9.49		ppb v/v		95	62 - 143	
Chlorobenzene	10	8.82		ppb v/v		88	68 - 128	
Chloroethane	10	7.91		ppb v/v		79	65 - 125	
Chloroform	10	8.85		ppb v/v		89	69 - 129	
Chloromethane	10	7.44		ppb v/v		74	57 - 126	
Chlorodibromomethane	10	9.06		ppb v/v		91	66 - 130	
1,1-Dichloroethane	10	8.51		ppb v/v		85	66 - 126	
1,2-Dichloroethane	10	9.58		ppb v/v		96	67 - 132	
cis-1,2-Dichloroethene	10	8.45		ppb v/v		85	67 - 127	
trans-1,2-Dichloroethene	10	9.07		ppb v/v		91	72 - 132	
1,1-Dichloroethene	10	8.63		ppb v/v		86	67 - 127	
1,2-Dichloropropane	10	8.05		ppb v/v		81	67 - 127	
cis-1,3-Dichloropropene	10	8.93		ppb v/v		89	70 - 130	
trans-1,3-Dichloropropene	10	9.30		ppb v/v		93	69 - 129	
Ethylbenzene	10	8.94		ppb v/v		89	68 - 128	
2-Hexanone	10	7.89		ppb v/v		79	61 - 127	
Methylene Chloride	10	8.00		ppb v/v		80	62 - 122	
4-Methyl-2-pentanone (MIBK)	10	8.12		ppb v/v		81	62 - 130	
Styrene	10	9.46		ppb v/v		95	68 - 128	
1,1,2,2-Tetrachloroethane	10	8.46		ppb v/v		85	69 - 129	
Tetrachloroethene	10	8.99		ppb v/v		90	70 - 130	
Toluene	10	9.10		ppb v/v		91	67 - 127	
1,1,1-Trichloroethane	10	9.41		ppb v/v		94	70 - 130	
1,1,2-Trichloroethane	10	8.80		ppb v/v		88	69 - 129	
Trichloroethene	10	9.18		ppb v/v		92	68 - 128	

TestAmerica Burlington

QC Sample Results

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Method: TO-15 - Volatile Organic Compounds in Ambient Air (Continued)

Lab Sample ID: LCS 200-127856/3

Matrix: Air

Analysis Batch: 127856

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec.	Limits
Vinyl chloride	10	7.68		ppb v/v	77	62 - 125		
Xylenes, Total	30	27.2		ppb v/v	91	67 - 128		

QC Association Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Air - GC/MS VOA

Analysis Batch: 127856

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
200-42776-1	TS-OAS-U	Total/NA	Air	TO-15	5
200-42776-2	TS-OAS-D	Total/NA	Air	TO-15	6
200-42776-4	TS-IAS-B	Total/NA	Air	TO-15	7
200-42776-5	TS-IAS-C	Total/NA	Air	TO-15	8
200-42776-6	TS-IAS-D	Total/NA	Air	TO-15	9
200-42776-7	TS-IAS-D-DUP	Total/NA	Air	TO-15	10
MB 200-127856/4	Method Blank	Total/NA	Air	TO-15	11
LCS 200-127856/3	Lab Control Sample	Total/NA	Air	TO-15	12

Lab Chronicle

Client: EHS Support, LLC
Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Client Sample ID: TS-OAS-U

Date Collected: 03/20/18 17:15

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-1

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/28/18 19:45	S1S	TAL BUR

Client Sample ID: TS-OAS-D

Date Collected: 03/20/18 17:20

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-2

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/28/18 20:39	S1S	TAL BUR

Client Sample ID: TS-IAS-B

Date Collected: 03/20/18 17:30

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-4

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/28/18 22:28	S1S	TAL BUR

Client Sample ID: TS-IAS-C

Date Collected: 03/20/18 18:05

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-5

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/28/18 23:21	S1S	TAL BUR

Client Sample ID: TS-IAS-D

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-6

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/29/18 00:15	S1S	TAL BUR

Client Sample ID: TS-IAS-D-DUP

Date Collected: 03/20/18 18:10

Date Received: 03/23/18 10:20

Lab Sample ID: 200-42776-7

Matrix: Air

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	TO-15		1	127856	03/29/18 01:10	S1S	TAL BUR

Laboratory References:

TAL BUR = TestAmerica Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

TestAmerica Burlington

Post-Sampling Air Canister Pressure Check Record

¹ Criteria: Return Pressure should be between -1 and -10 ("Hg) with the exception of grab samples or those using 100 or 200mL/minute flow controllers. These samples must be returned at no lower than -10" Hg, but have no specific criteria otherwise.

² If return pressure is not within criteria, initiate Non-Conformance Memo.

³ Record the ID of the FC used for sampling if information is provided, otherwise leave blank.

⁴ Record the Flow Controller Set Flow Rate Logbook ID and Page number in which the original FC Check was recorded

TestAmerica Burlington
30 Community Drive
Suite 11
South Burlington, VT 05403-6809
phone 802.660.1990 fax 802.660.1919

Canister Samples Chain of Custody Record

TestAmerica Laboratories, Inc.
THE LEADER IN ENVIRONMENTAL TESTING
Assumes no liability with respect to the collection and shipment of these samples.

Samples Shipped by:

Date / Time:

COCs

Samples Relinquished by:

Date / Time:

Received by:

Shipper Name:

Date / Time:

Received by:

Lab Use Only:

Date / Time:

Received by:

Condition:

Client Project Manager: C. Piechowski
Phone: 302 - 995 - 3484
Email: charles.y.piechowski@ashland.com

Site Contact: Knis Spikes
Tel/Fax 218 - 522 - 6050

Project Name: Alternator | Task

Site/Location: Jonesboro, GA

P.O # C00342-2018-3046

Rush (Specify):

Analysis Turnaround Time

Standard (Specify): HOLD

Sample Type

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

COC No. 1 of 1 COCs

For Lab Use Only: Walk-in Client: Lab Sampling: Job / SDG No.:

Other (Please specify in notes section)

Sample Specific Notes:

TO-14/15 Standard / Low Level)

TO-15 SIM

EPA 25C

EPA 3C

ASTM D-1946

EPA 1516

Other (Please specify in notes section)

Indoor Air/Ambient Air

Soil Vapor Extraction (SVE)

Soil Gases

Sub-Slab

Landfill Gas

Other (Please specify in notes section)

(See below for Add'l Items)

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ORIGIN ID: MULIA 678 966-9991-5 GEORGE TAYLOR TEST AMERICA ATLANTA 6500 McDONOUGH DRIVE NORCROSS, GA 30093 UNITED STATES US	SHIP DATE: 22MAR18 ACT WT: 36.80 LB CAD: 859116/CAFE3108 BILL RECIPIENT	SHIP DATE: 22MAR18 ACT WT: 36.80 LB CAD: 859116/CAFE3108 BILL RECIPIENT
<p>TO SAMPLE RECEIVING TESTAMERICA 30 COMMUNITY DR SUITE 11 SOUTH BURLINGTON VT 05403 <small>(802) 660-1980</small> <small>REF: ASHLAND</small></p> <p>117101610200140 545C1/A07F5/53C1</p>		
<p>TO SAMPLE RECEIVING TESTAMERICA 30 COMMUNITY DR SUITE 11 SOUTH BURLINGTON VT 05403 <small>(802) 660-1980</small> <small>REF: ASHLAND</small></p> <p>117101610200140 545C1/A07F5/53C1</p>		
<p>FRI - 23 MAR 3:00P TRK# 4149 3871 8305 1 of 2 0200 ## MASTER ## NC BTVA VT-US BTV</p> <p>2 of 2 MPS# 4149 3871 8316 0263 Mstr# 4149 3871 8305 DS 0540 0201 NC BTVA VT-US BT</p>		

Login Sample Receipt Checklist

Client: EHS Support, LLC

Job Number: 200-42776-1

Login Number: 42776

List Source: TestAmerica Burlington

List Number: 1

Creator: Lavigne, Scott M

Question	Answer	Comment	
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	Lab does not accept radioactive samples.	6
The cooler's custody seal, if present, is intact.	True	450006,007	7
Sample custody seals, if present, are intact.	True		8
The cooler or samples do not appear to have been compromised or tampered with.	True		9
Samples were received on ice.	N/A	Thermal preservation not required.	10
Cooler Temperature is acceptable.	True		11
Cooler Temperature is recorded.	N/A	Thermal preservation not required.	12
COC is present.	True		13
COC is filled out in ink and legible.	True		14
COC is filled out with all pertinent information.	True		15
Is the Field Sampler's name present on COC?	True		16
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.	N/A		
Sample Preservation Verified.	True		
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True		
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True		
Multiphasic samples are not present.	True		
Samples do not require splitting or compositing.	True		
Residual Chlorine Checked.	N/A		

Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18 *
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Pre-Shipment Clean Canister Certification Report

System ID			# Cycles			Canister Cleaning & Pre-Shipment Leak Test			
	Bottom Rack		25		10-Feb	Initial Reading		Canister Size	Certification Type:
Port	Can ID	Initial ¹ (psia)	Final (psia)	Diff. ³ ("Hg)	Final ("Hg)	Gauge:	Date:	Time:	Tech:
1	5151	24	54	28	-21.5	G25	2/15/18	4:47	EJE
2	4820	104	104	0	0	G25			
3	5095	111	111	0	0	G25			
4	4560	54	54	0	0	G25			
5	2911	04	04	0	0	G25			
6	4155	34	34	0	0	G25			
7	5029	34	34	0	0	G25			
8	3659	34	34	0	0	G25			
9	5032	34	34	0	0	G25			
10	3248	34	34	0	0	G25			
11	3161	34	34	0	0	G25			
12	5902	34	34	0	0	G25			

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: ≤ TO15 Routine ≤ NJDEP-LL TO15			Inventory Level				Secondary Review			
Can ID	Date	Sequence	Analyst	1	2	3	4	Limited	Review Date	Reviewer
1	5151	02/13/18	29134	KP	XXXX				02/13/18	PAJ
2	4820									
3	5095									
4	4560									
5	2911									
6	4155	02/15/18	29176	SS					02/15/18	PAJ
7	5029									
8	3659									
9	5032									
10	3248									
11	3161									
12	5902									

Inventory Level 1: Individual Canister Certification (TO15 LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15 LLN 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

3/30/2018



200-42213-A-1

5151

Location: Air-Storage
Bottle: Summa Canister 6L
Sampled: 2/10/2018 12:00 AM

200-1121926

Loc: 200

42213

#1
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Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID		# Cycles		Cleaning Date			Technician		Canister Size		Certification Type:				
Bottom Rack		25		17-Feb			E/J/E		1L 6L		Final Reading				
Port	Can ID	Initial ¹ (psia)	Final (psia)	Final ("Hg)	Diff. ³	Gauge: Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:	
1	2953	-04	-05	-29.9	-01	G25	2/17/18	8:51	EE	22	G25	2/20/18	9:51	EE	22
2	4364	-04	-04	-29.9	00	G25				G25					
3	5140	-06	-02	-29.9	-02	G25				G25					
4	4828	-04	-04	-29.9	00	G25				G25					
5	3261	-04	-04	-29.9	00	G25				G25					
6	3654	-04	-04	-29.9	-00	G25	2/21/18	14:11	EE	22	G25	2/23/18	14:16	EE	22
7	4281	-04	-04	-29.9	-05	G25	2/17/18	8:55	EE	22	G25	2/20/18	9:55	EE	22
8	5045	-04	-04	-29.9	-04	G25				G25					
9	4470	-04	-04	-29.9	-05	G25				G25					
10	3196	-10	-06	-29.9	-04	G25				G25					
11	5893	-04	-04	-29.9	-02	G25				G25					
12	3361	-06	-02	-29.9	-02	G25				G25					

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: \leq TO15 Routine \leq TO15 LL \leq NIDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level				Secondary Review			
				1	2	3	4	Limited	Review Date	Reviewer	
3654	02/21/18	29254	A.B		XXXX				02/21/18	PBD	

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLN 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

Loc: 200	42287	#6	A
3654	Location: Air-Storage	Bottle: Summa Canister 6L	Sampled: 2/17/2018 12:00 AM 200-1123947

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID			# Cycles			Cleaning Date			Technician			Canister Size			Certification Type:					
Bottom Rack			20			19-Feb			E.I.E			1L			6L			Individual		
Port	Can ID	Initial ¹ (psi)	Final (psi)	Diff. ³	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:
1	3866	.04	.04	.00	-29.9	G25	2/26/18	0:41	EE	73	G25	2/26/18	15:54	EE	72					
2	3350	.04	.04	.00	-35.4	G25	2/22/18	14:11	EE	32	G25	2/23/18	19:13	EE	32					
3	3525	.04	.05	.01	-29.9	G25	2/26/18	0:41	EE	73	G25	2/26/18	15:54	EE	72					
4	4429	.06	.06	.00	-25.9	G25					G25									
5	4296	.04	.04	.00	-29.9	G25					G25									
6	2734	.04	.04	.00	-29.9	G25					G25									
7	5129	.04	.04	.00	-29.9	G25					G25									
8	2856	.04	.04	.00	-25.2	G25					G25									
9	2845	.04	.04	.00	-29.9	G25					G25									
10	2515	.04	.04	.00	-29.9	G25					G25									
11	4428	.04	.04	.00	-26.9	G25					G25									
12	3503	.05	.05	.00	-29.9	G25					G25									

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure. Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

Clean Canister Certification Analysis & Authorization of Release to Inventory

Test Method: \leq TO15 Routine \leq TO15 LL \leq NJDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level	Secondary Review
3350	02/21/18	29254	A.B	XXXX	Limited Review Date 02/21/18 P.P.D

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLN 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Comments:

Loc: 200
42301
#2
A

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID			# Cycles			Cleaning Date			Technician			Canister Size			Certification Type:					
Top Rack			20			21-Feb			EJE			1L			6L			Individual		
Port	Can ID	Initial ¹ (psia)	Final (psia)	Dif. ³	Final ("Hg)	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	Temp:	Gauge:	Date:	Time:	Tech:	
1	5071	.04	.05	.01	-30.1	G25	2/21/18	8:21	EE	22	G25	2/21/18	15:22	EE	22	G25	2/21/18	15:22	EE	
2	3210		.04	.05	-30.1	G25					G25				G25					
3	5714		.04	.05	-30.1	G25					G25				G25					
4	2848	.04	.04	.00	-24.9	G25	2/21/18	11:45	EE	22	G25	2/21/18	9:43	EE	22	G25	2/21/18	15:22	EE	
5	5152	.04	.04	.00	-30.1	G25	2/21/18	8:21	EE	22	G25	2/21/18	15:22	EE	22	G25	2/21/18	15:22	EE	
6	2596		.04	.05	.01	G25					G25				G25					
7	5155		.05	.05	.00	G25					G25				G25					
8	5641		.04	.04	.00	G25					G25				G25					
9	4467		.04	.04	.00	G25					G25				G25					
10	6020		.04	.04	.00	G25					G25				G25					
11	4573		.16	.12	.03	G25					G25				G25					
12	4094		.06	.02	.03	G25					G25				G25					

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure. Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

Clean Canister Certification Analysis & Authorization of Release to Inventory

Clean Canister Certification Routine ≤ TO15 LL ≤ NUDEP-LL TO15

Can ID	Date	Sequence	Analyst	Inventory Level	Secondary Review
2848	02/23/18	29296	AB	1 2 3 4 XXXX	Limited Reviewer 02/23/18 RJD

Inventory Level 1: Individual Canister Certification (TO15LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15LLNJ 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.

Loc: 200
42322
#4
A

Comments:

Pre-Shipment Clean Canister Certification Report

Canister Cleaning & Pre-Shipment Leak Test

System ID			Max DF#	# Cycles	Cleaning Date	Technician	Canister Size			Certification Type:	
Port	Can ID	Top Rack	1	25	2/26/2018	E/J/E	1L	6L	Individual	Batch	
Initial ¹			Final (psia)	Final ("Hg)	Initial Reading			Final Reading			
Port	Can ID	Top Rack	Initial ¹ (psia)	Final (psia)	Diff. ³	Date:	Time:	Tech:	Temp:	Gauge:	Time:
1	4357	104	.08	.04	-.04	G25	1.28.18	14:14	73	G25	2.1.18 15:40
2	5609	041	.04	.04	04	G25	2.27.18	8:24	72	G25	3.5.18 12:33
3	5050	1	.04	.04	04	G25				G25	
4	2849		.05	.04	.01	G25				G25	
5	5692		.04	.04	04	G25				G25	
6	3015		.04	.04	04	G25				G25	
7	4333		.04	.04	04	G25				G25	
8	3322		.04	.04	04	G25				G25	
9	4782		.04	.04	04	G25				G25	
10	4324		.04	.04	04	G25				G25	
11	4795		.04	.04	04	G25				G25	
12	2670		.04	.04	04	G25				G25	

¹ Batch Certification: The reading is taken on the "batch" canister and this value is used as the initial pressure for all canisters in the batch.

³ Difference = Final Pressure - Initial Pressure . Acceptance Criteria: (1) The difference must be less than or equal to + 0.25psi. (2) Pressure readings must be at least 24 hours apart.

If time frame was not met, the PM must authorize shipment of canister

PM Authorization

Clean Canister Certification Analysis & Authorization of Release to Inventory



200-42375-A-1

4357

Location: Air-Storage

Bottle: Summa Canister 6L

Sampled: 2/26/2018 12:00 AM 200-1126096

Loc: 200
42375
#1
A

Inventory Level 1: Individual Canister Certification (TO15 LL 0.01).

Inventory Level 2: Individual or Batch Certification (TO15 0.04 ppbv).

Inventory Level 3: Individual or Batch Certification (TO15 0.2 ppbv).

Inventory Level 4: Individual or Batch Certification (TO15 LLN 0.08 ppbv).

Inventory Level Limited: Canisters may only be used for certain projects.



FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5151

Lab Sample ID: 200-42213-1

Matrix: Air

Lab File ID: 29134_21.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 04:34

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5151

Lab Sample ID: 200-42213-1

Matrix: Air

Lab File ID: 29134_21.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 04:34

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5151

Lab Sample ID: 200-42213-1

Matrix: Air

Lab File ID: 29134_21.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 04:34

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\29134_21.D							
Lims ID:	200-42213-A-1							
Client ID:	5151							
Sample Type:	Client							
Inject. Date:	13-Feb-2018 04:34:30	ALS Bottle#:	21	Worklist Smp#:	21			
Purge Vol:	200.000 mL	Dil. Factor:	0.2000					
Sample Info:	200-0029134-021							
Operator ID:	pad	Instrument ID:	CHC.i					
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\TO15_MasterMethod_(v1)_CHC.i.m							
Limit Group:	AI_TO15_ICAL							
Last Update:	13-Feb-2018 10:47:37	Calib Date:	26-Jan-2018 01:35:30					
Integrator:	RTE	ID Type:	Deconvolution ID					
Quant Method:	Internal Standard	Quant By:	Initial Calibration					
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D							
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN					
Process Host:	XAWRK023							
First Level Reviewer:	daiglep	Date:	13-Feb-2018 10:45:50					
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	2.967					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.426					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.747					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.743					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.250					ND	
21 1,1-Dichloroethene	96	6.282					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.655	6.661	-0.006	94	1169	0.0211	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.072					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.611					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.815					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.274	0.000	94	310452	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.669				ND	
44 1,1,1-Trichloroethane	97		10.690				ND	
45 Carbon tetrachloride	117		10.946				ND	
46 Isooctane	57		11.400				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.587				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	97	1609693	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.088				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.006				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.142				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.306	-0.006	92	1581163	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.088				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.985				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.252				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.549				ND	
98 Benzyl chloride	91		22.741				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.072				ND	
103 1,2,4-Trichlorobenzene	180		25.495				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

Report Date: 13-Feb-2018 10:48:30

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_21.D

Injection Date: 13-Feb-2018 04:34:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-1

Lab Sample ID: 200-42213-1

Worklist Smp#: 21

Client ID: 5151

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

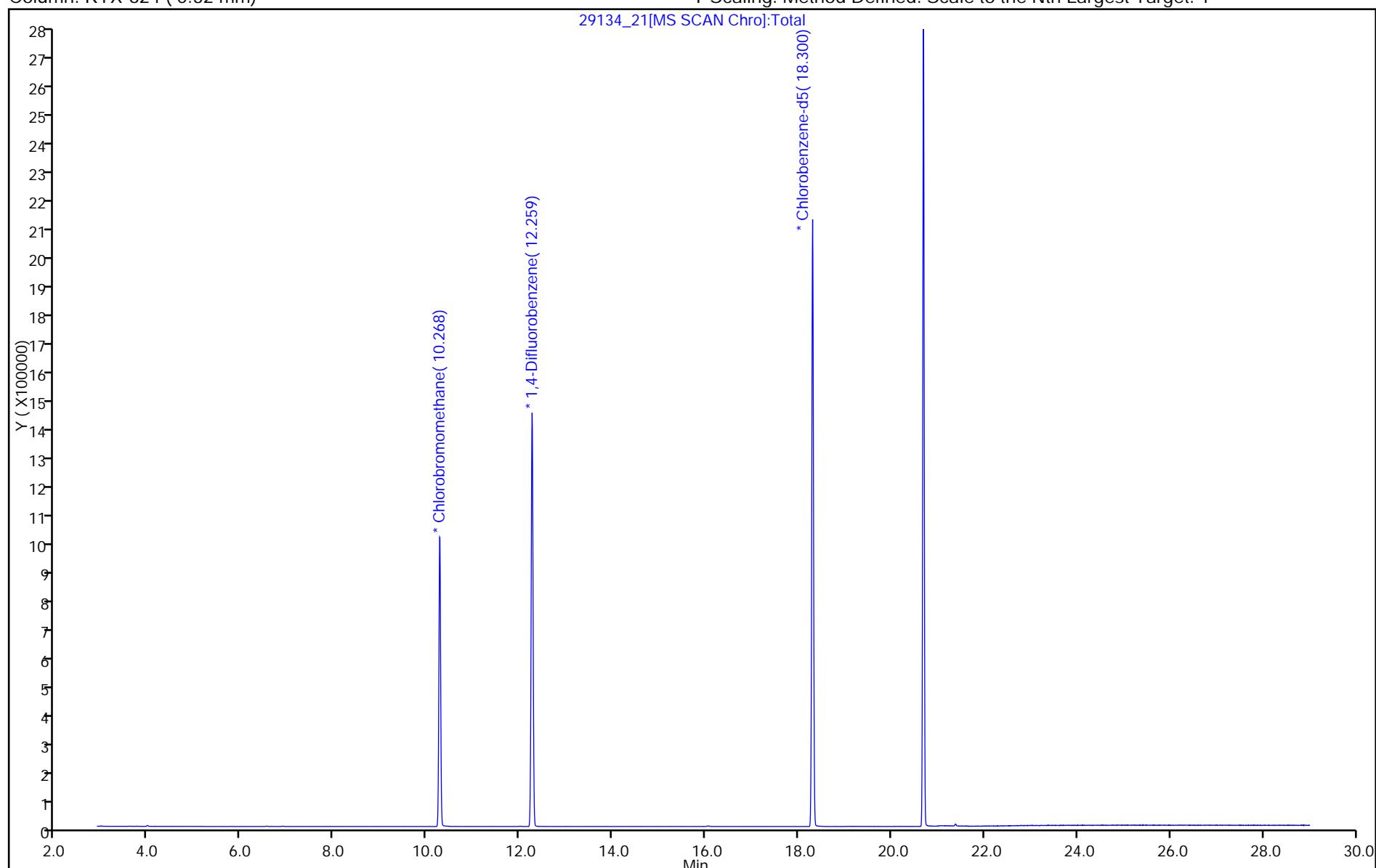
ALS Bottle#: 21

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

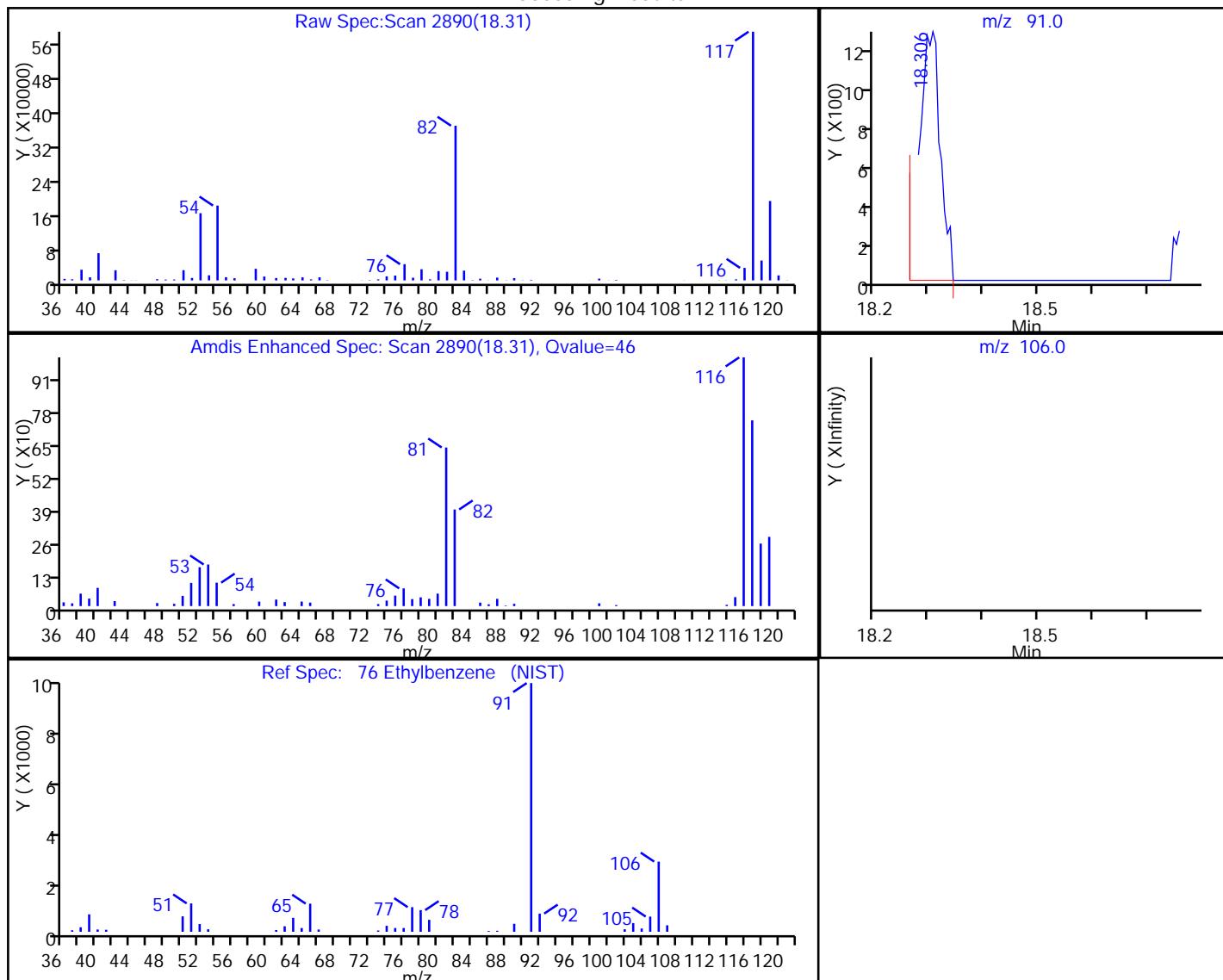
Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_21.D
 Injection Date: 13-Feb-2018 04:34:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-1 Lab Sample ID: 200-42213-1
 Client ID: 5151
 Operator ID: pad ALS Bottle#: 21 Worklist Smp#: 21
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3320	0.027241
18.52	106.00	0	

Reviewer: daiglep, 13-Feb-2018 10:45:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-42213-2

Matrix: Air

Lab File ID: 29134_22.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 05:32

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-42213-2

Matrix: Air

Lab File ID: 29134_22.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 05:32

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4820

Lab Sample ID: 200-42213-2

Matrix: Air

Lab File ID: 29134_22.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 05:32

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\29134_22.D		
Lims ID:	200-42213-A-2		
Client ID:	4820		
Sample Type:	Client		
Inject. Date:	13-Feb-2018 05:32:30	ALS Bottle#:	22
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029134-022		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	13-Feb-2018 10:47:37	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK023		

First Level Reviewer: daiglep Date: 13-Feb-2018 10:46:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.967					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.426					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.747					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.743					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.250					ND	
21 1,1-Dichloroethene	96	6.282					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.655	6.661	-0.006	98	1159	0.0208	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.072					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.611					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.815					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.268	10.274	-0.006	94	312821	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.669				ND	
44 1,1,1-Trichloroethane	97		10.690				ND	
45 Carbon tetrachloride	117		10.946				ND	
46 Isooctane	57		11.400				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.587				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	97	1617861	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.088				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.006				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.142				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.306	-0.006	92	1588762	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.088				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.985				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.252				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.549				ND	
98 Benzyl chloride	91		22.741				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.072				ND	
103 1,2,4-Trichlorobenzene	180		25.495				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 13-Feb-2018 10:48:33

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_22.D

Injection Date: 13-Feb-2018 05:32:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-2

Lab Sample ID: 200-42213-2

Worklist Smp#: 22

Client ID: 4820

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

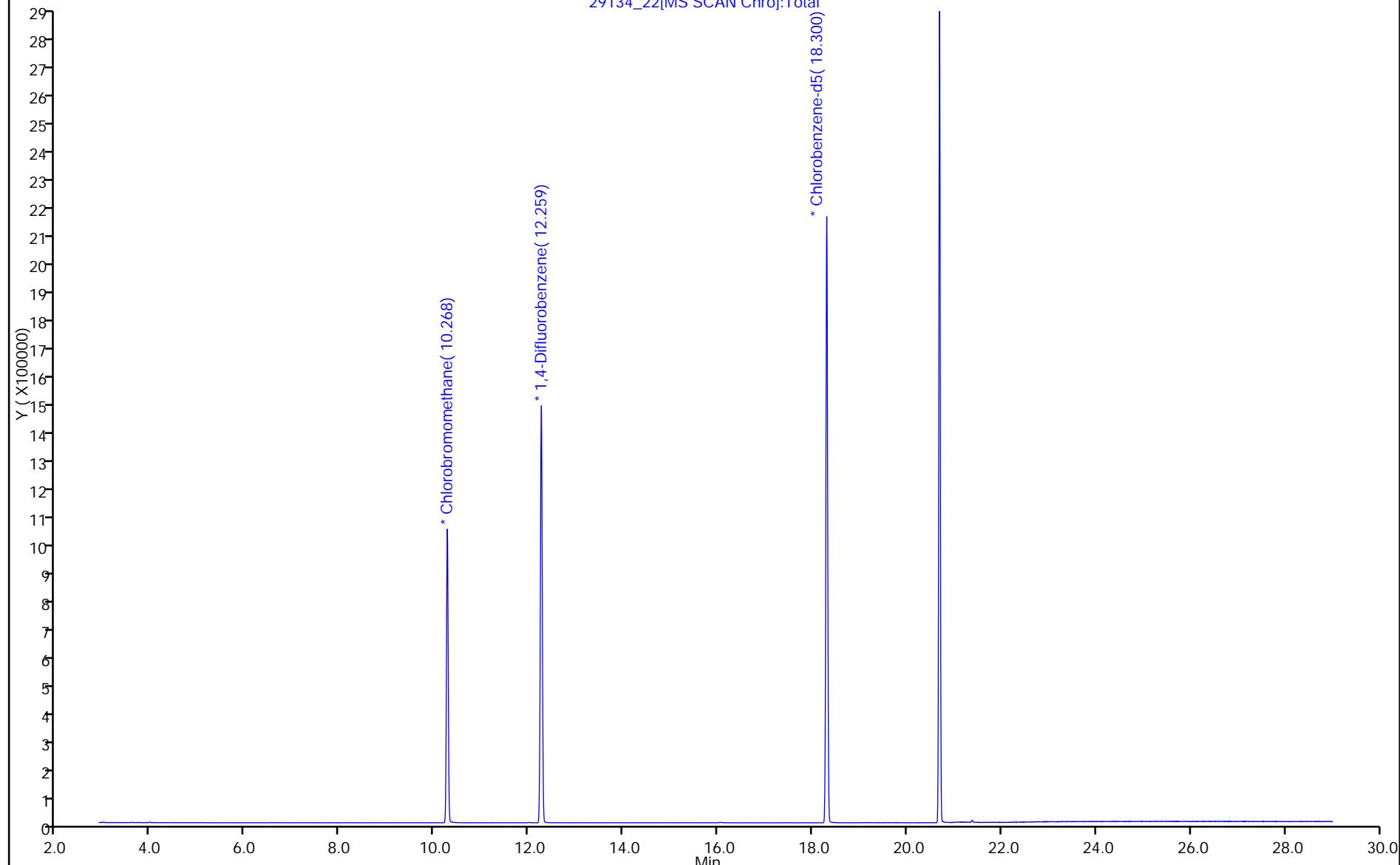
ALS Bottle#: 22

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

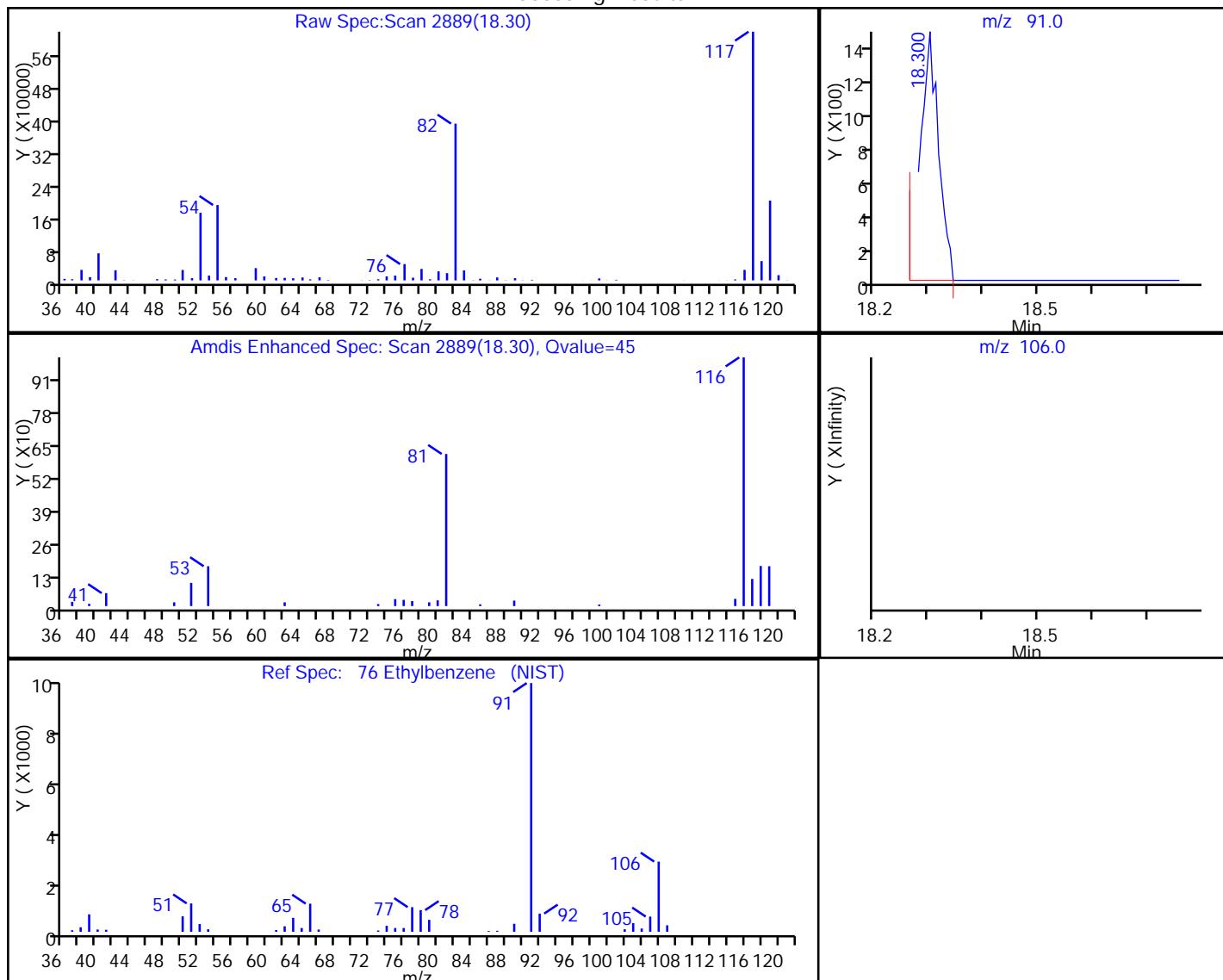


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_22.D
 Injection Date: 13-Feb-2018 05:32:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-2 Lab Sample ID: 200-42213-2
 Client ID: 4820
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 22
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3343	0.027298
18.52	106.00	0	

Reviewer: daiglep, 13-Feb-2018 10:46:20

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5095

Lab Sample ID: 200-42213-3

Matrix: Air

Lab File ID: 29134_23.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 06:30

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5095

Lab Sample ID: 200-42213-3

Matrix: Air

Lab File ID: 29134_23.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 06:30

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5095

Lab Sample ID: 200-42213-3

Matrix: Air

Lab File ID: 29134_23.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 06:30

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\29134_23.D		
Lims ID:	200-42213-A-3		
Client ID:	5095		
Sample Type:	Client		
Inject. Date:	13-Feb-2018 06:30:30	ALS Bottle#:	23
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029134-023		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	13-Feb-2018 10:47:37	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK023		

First Level Reviewer: daiglep Date: 13-Feb-2018 10:46:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.967					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.426					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.747					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.743					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.250					ND	
21 1,1-Dichloroethene	96	6.282					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.661					ND	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.072					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.611					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.815					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.273	10.274	-0.001	94	316447	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.669				ND	
44 1,1,1-Trichloroethane	97		10.690				ND	
45 Carbon tetrachloride	117		10.946				ND	
46 Isooctane	57		11.400				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.587				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	97	1631389	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.088				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.006				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.142				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.306	-0.006	96	1597675	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.088				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.985				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.252				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.549				ND	
98 Benzyl chloride	91		22.741				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.072				ND	
103 1,2,4-Trichlorobenzene	180		25.495				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 13-Feb-2018 10:48:35

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_23.D

Injection Date: 13-Feb-2018 06:30:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-3

Lab Sample ID: 200-42213-3

Worklist Smp#: 23

Client ID: 5095

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

ALS Bottle#: 23

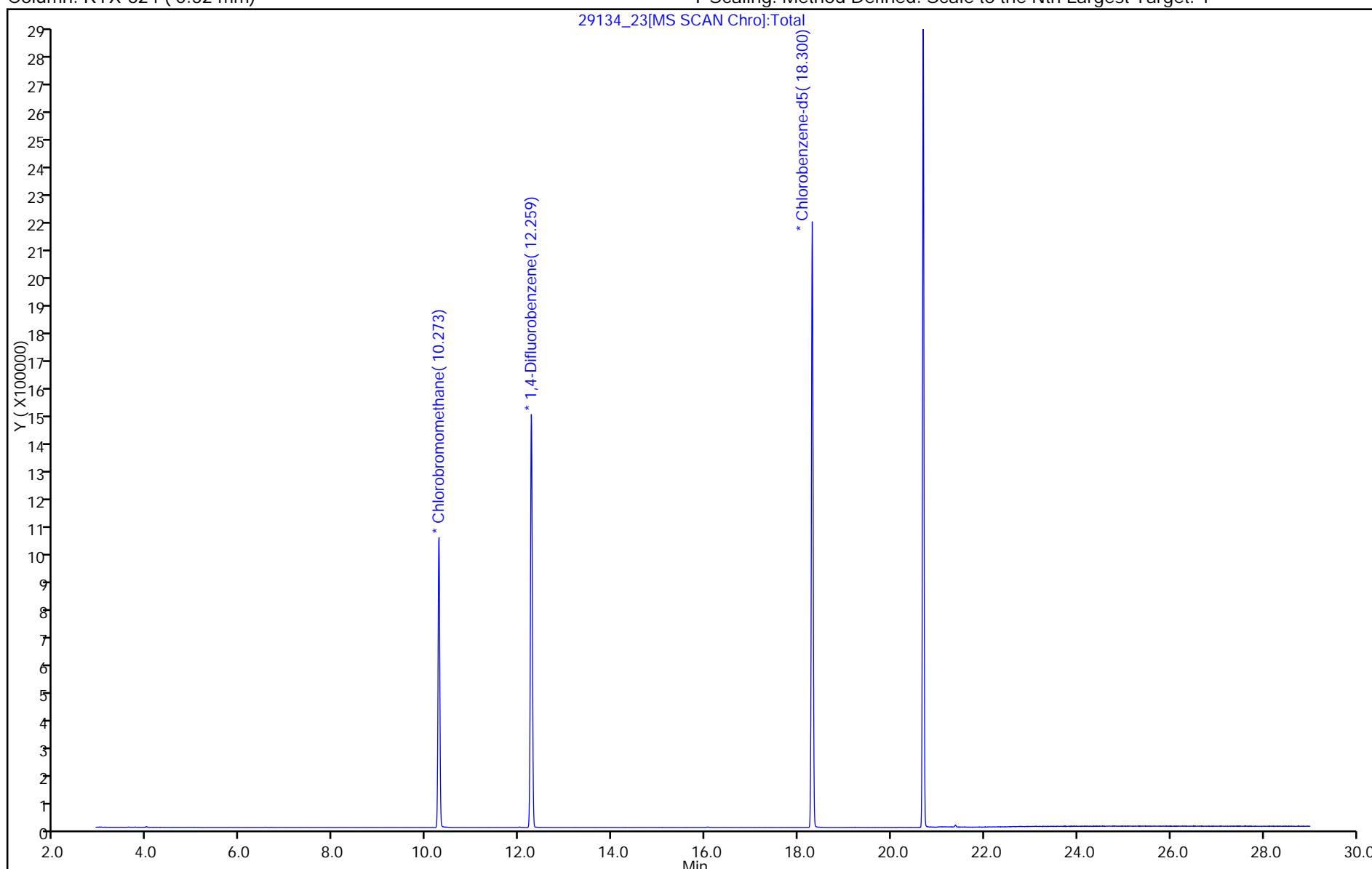
Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

29134_23[MS SCAN Chro]:Total



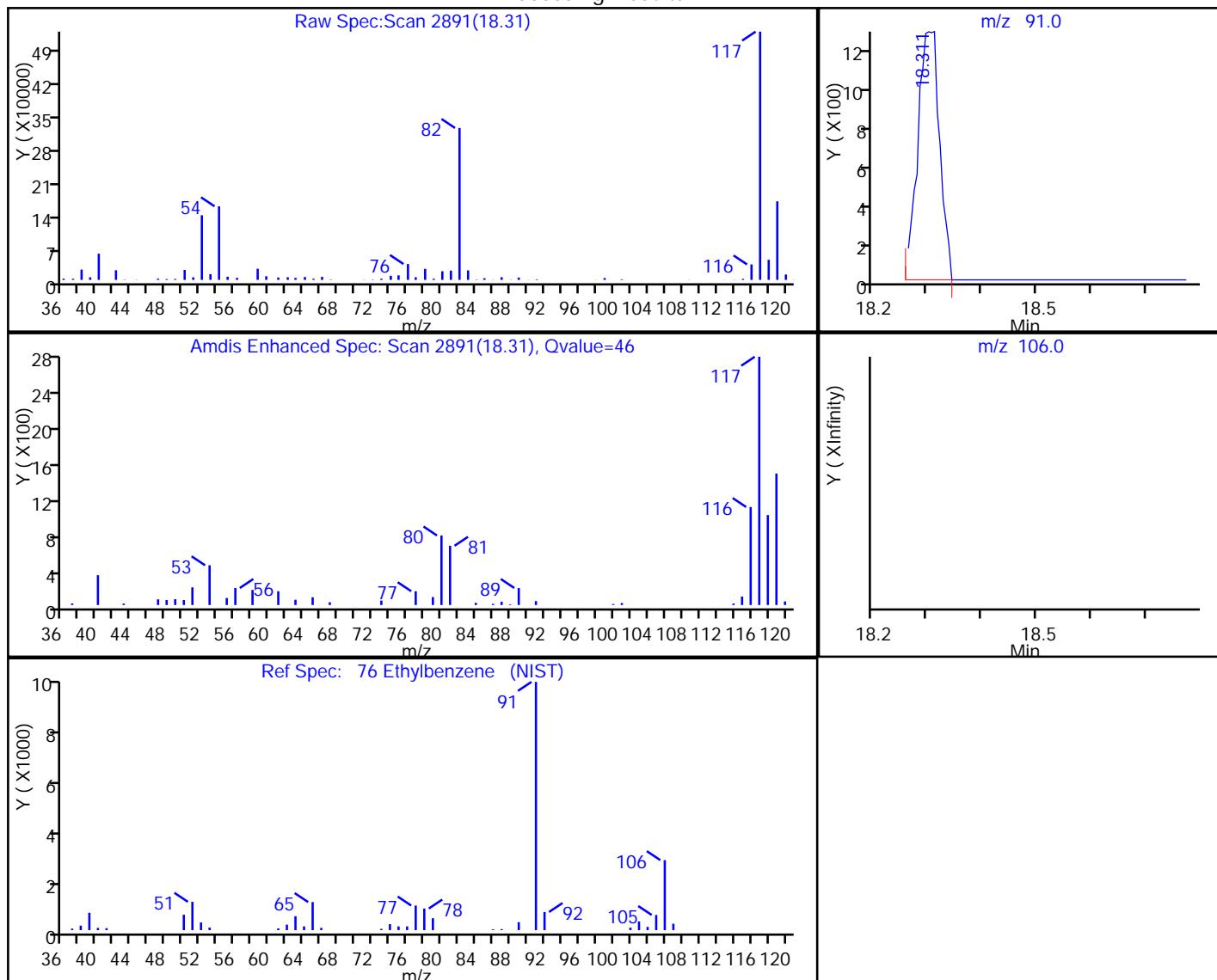
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TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_23.D
 Injection Date: 13-Feb-2018 06:30:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-3 Lab Sample ID: 200-42213-3
 Client ID: 5095
 Operator ID: pad ALS Bottle#: 23 Worklist Smp#: 23
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



Reviewer: daiglep, 13-Feb-2018 10:46:47

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4560

Lab Sample ID: 200-42213-4

Matrix: Air

Lab File ID: 29134_24.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 07:29

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4560

Lab Sample ID: 200-42213-4

Matrix: Air

Lab File ID: 29134_24.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 07:29

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4560

Lab Sample ID: 200-42213-4

Matrix: Air

Lab File ID: 29134_24.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 07:29

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\29134_24.D		
Lims ID:	200-42213-A-4		
Client ID:	4560		
Sample Type:	Client		
Inject. Date:	13-Feb-2018 07:29:30	ALS Bottle#:	24
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029134-024		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	13-Feb-2018 10:47:37	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK023		

First Level Reviewer: daiglep Date: 13-Feb-2018 10:47:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.967					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.426					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.747					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.769	5.743	0.026	77	1155	0.0971	
20 1,1,2-Trichloro-1,2,2-trif	101	6.250					ND	
21 1,1-Dichloroethene	96	6.282					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.655	6.661	-0.006	99	13474	0.2368	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.072					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.611					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.815					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.268	10.274	-0.006	94	319366	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.669				ND	
44 1,1,1-Trichloroethane	97		10.690				ND	
45 Carbon tetrachloride	117		10.946				ND	
46 Isooctane	57		11.400				ND	
47 Benzene	78	11.394	11.389	-0.006	94	2572	0.0331	M
48 1,2-Dichloroethane	62		11.587				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	97	1660982	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.088				ND	
65 Toluene	92	15.402	15.393	0.005	91	942	0.0171	
66 trans-1,3-Dichloropropene	75		16.006				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.142				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.306	-0.006	93	1622962	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.088				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.985				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.252				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.549				ND	
98 Benzyl chloride	91		22.741				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.072				ND	
103 1,2,4-Trichlorobenzene	180		25.495				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

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Report Date: 13-Feb-2018 10:48:37

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_24.D

Injection Date: 13-Feb-2018 07:29:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-4

Lab Sample ID: 200-42213-4

Worklist Smp#: 24

Client ID: 4560

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

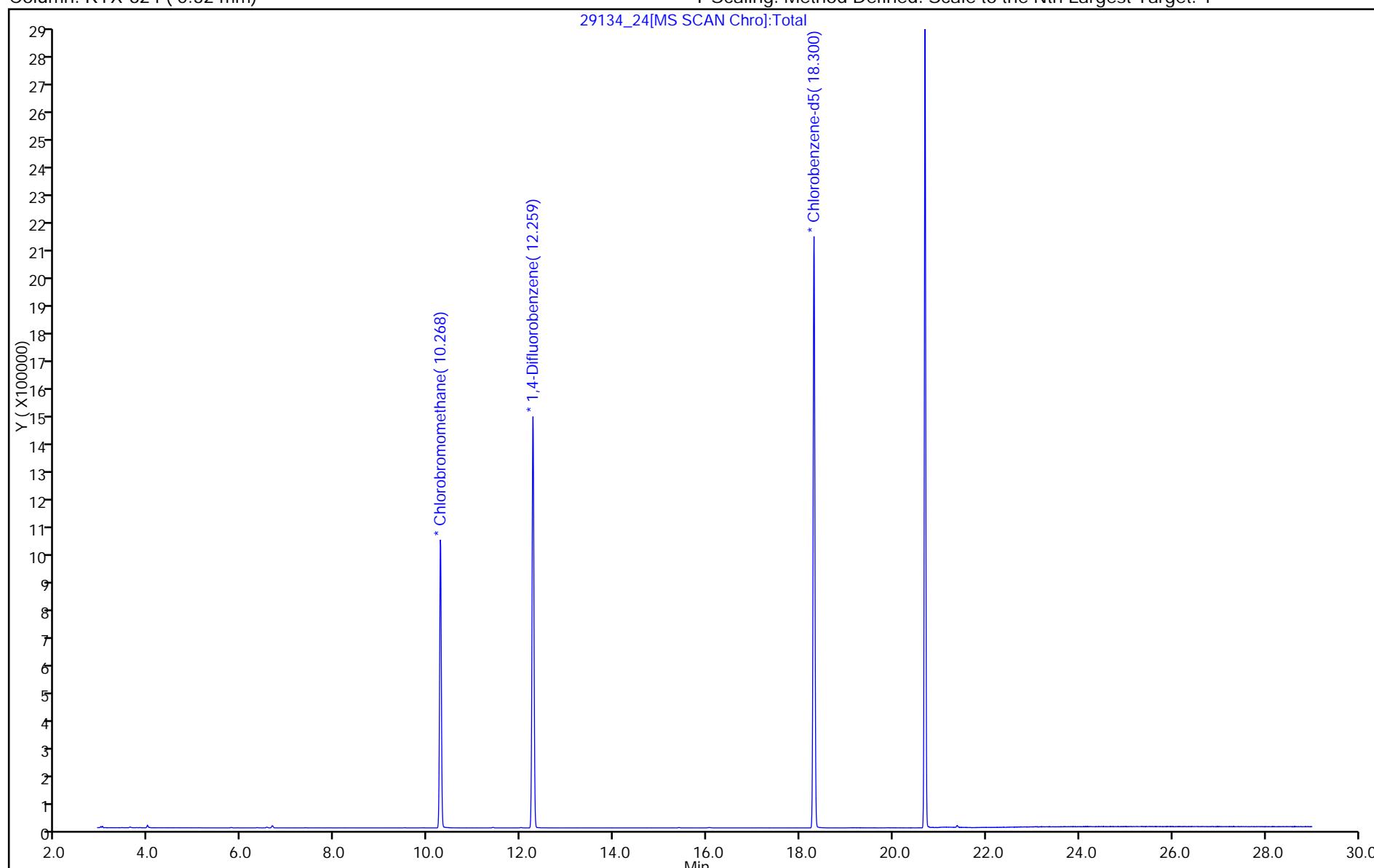
ALS Bottle#: 24

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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TestAmerica Burlington

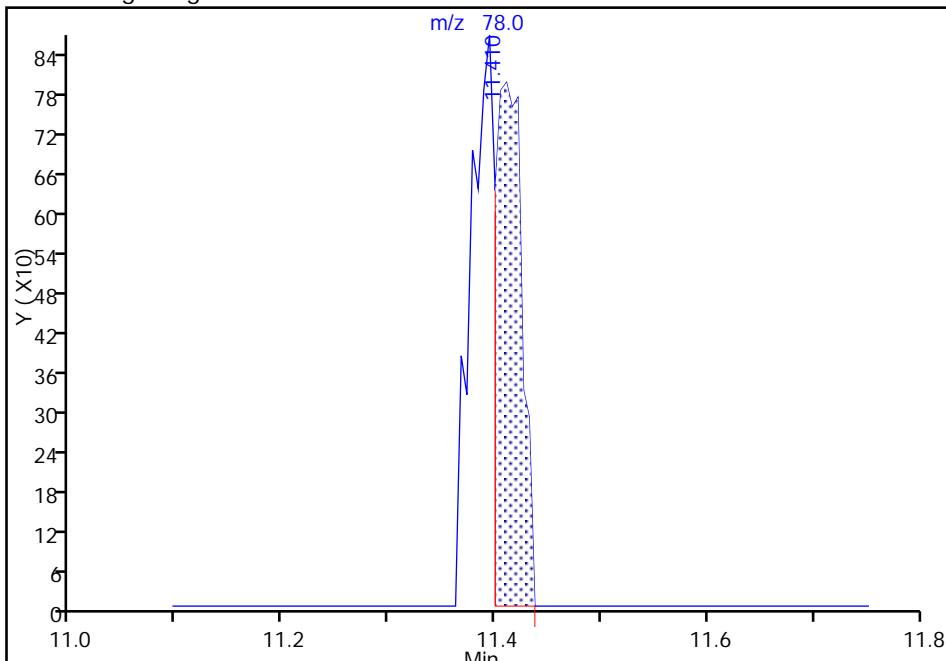
Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_24.D
 Injection Date: 13-Feb-2018 07:29:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-4 Lab Sample ID: 200-42213-4
 Client ID: 4560
 Operator ID: pad ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 1

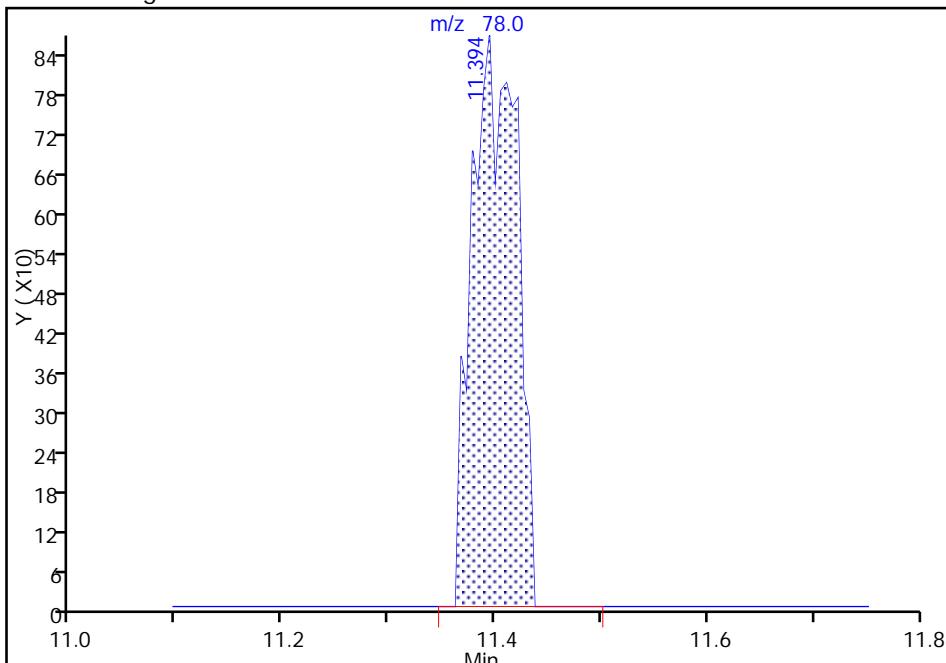
RT: 11.41
 Area: 1394
 Amount: 0.017949
 Amount Units: ppb v/v

Processing Integration Results



RT: 11.39
 Area: 2572
 Amount: 0.033117
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: daiglep, 13-Feb-2018 10:47:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington

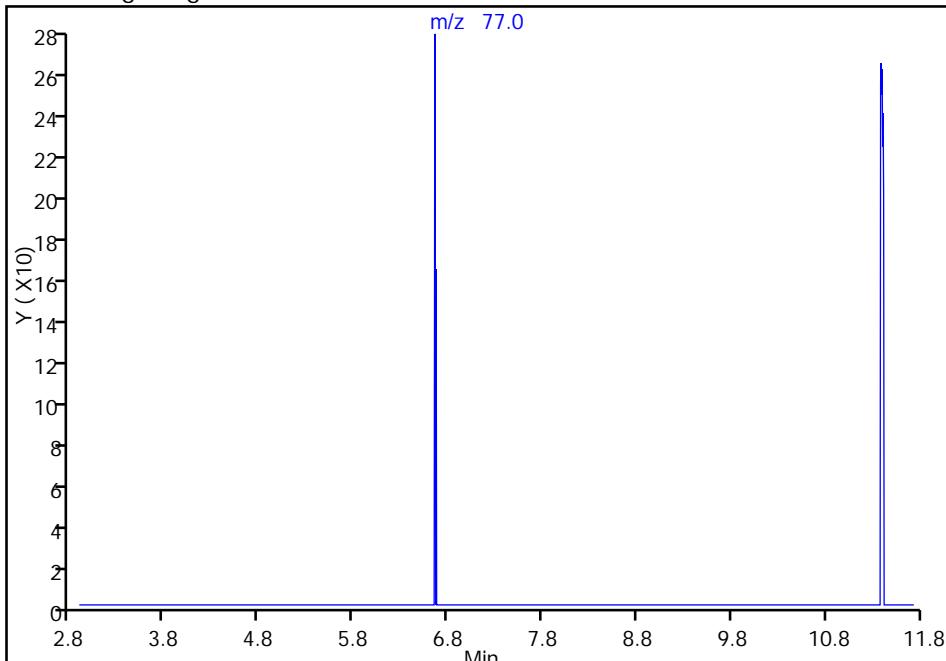
Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_24.D
 Injection Date: 13-Feb-2018 07:29:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-4 Lab Sample ID: 200-42213-4
 Client ID: 4560
 Operator ID: pad ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

47 Benzene, CAS: 71-43-2

Signal: 2

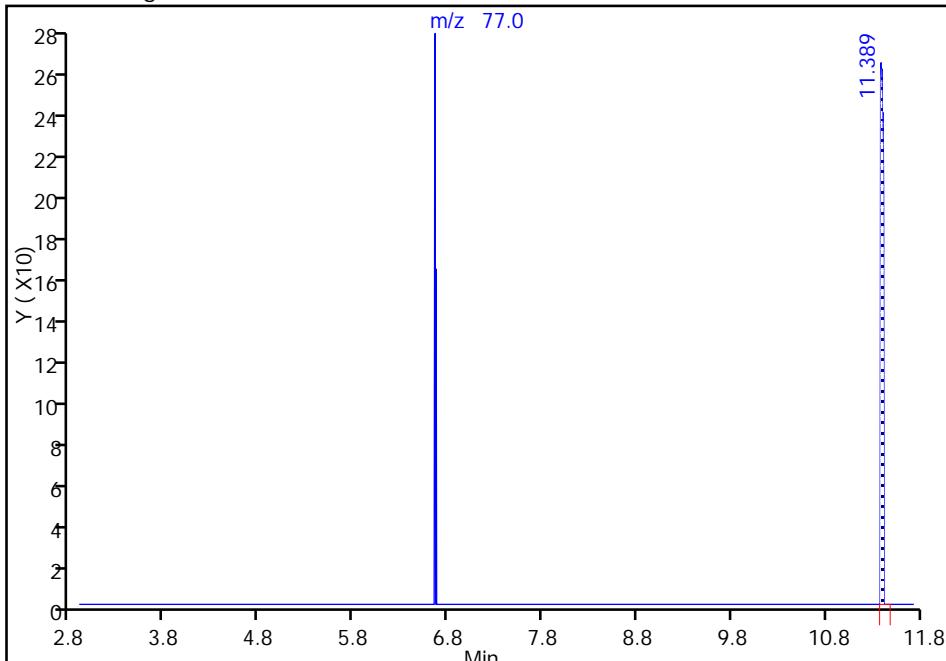
RT: 11.40
 Area: 0
 Amount: 0.017949
 Amount Units: ppb v/v

Processing Integration Results



RT: 11.39
 Area: 534
 Amount: 0.033117
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: daiglep, 13-Feb-2018 10:47:18

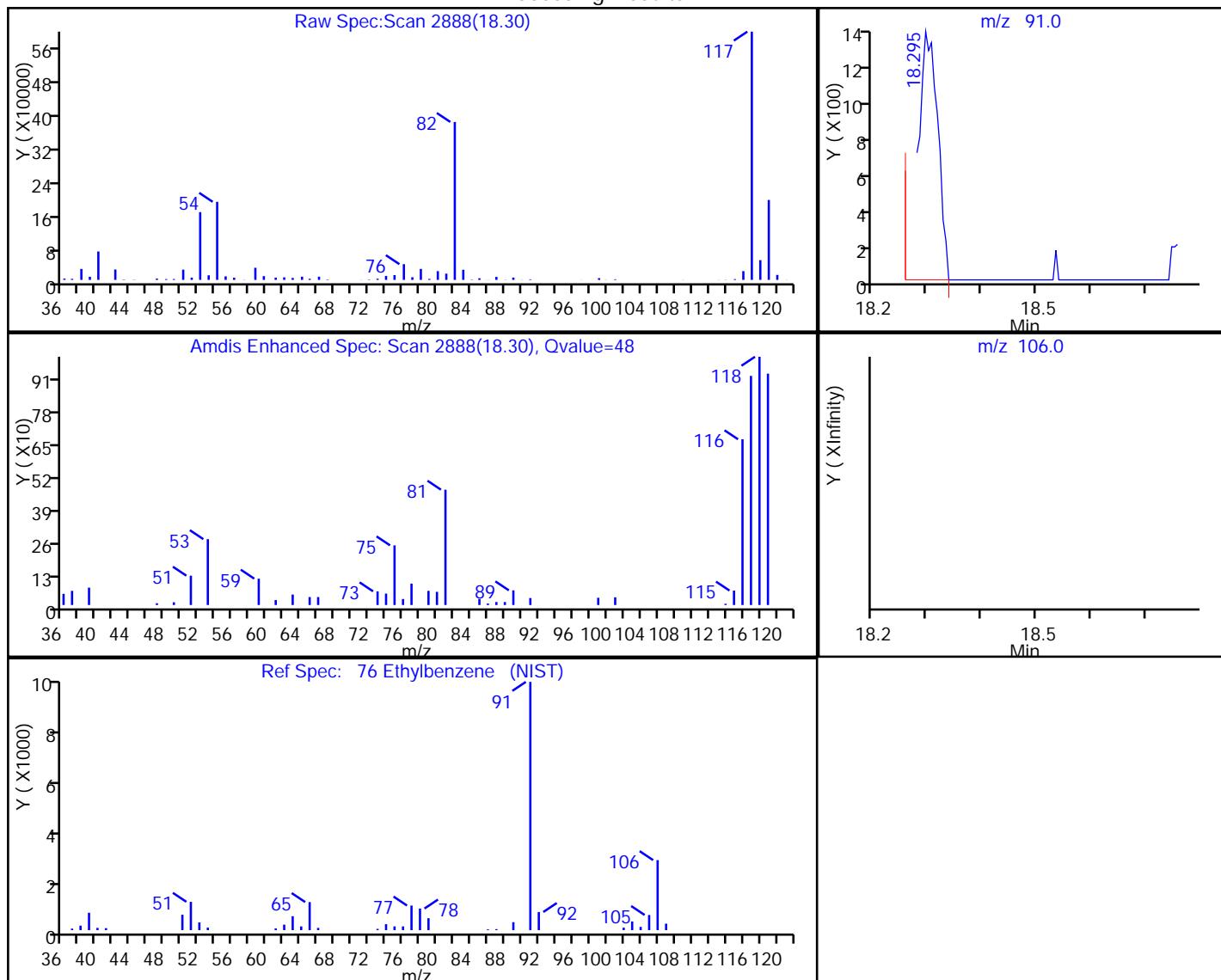
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_24.D
 Injection Date: 13-Feb-2018 07:29:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-4 Lab Sample ID: 200-42213-4
 Client ID: 4560
 Operator ID: pad ALS Bottle#: 24 Worklist Smp#: 24
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3485	0.027858
18.52	106.00	0	

Reviewer: daiglep, 13-Feb-2018 10:47:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 2911

Lab Sample ID: 200-42213-5

Matrix: Air

Lab File ID: 29134_25.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 08:27

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 2911

Lab Sample ID: 200-42213-5

Matrix: Air

Lab File ID: 29134_25.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 08:27

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 2911

Lab Sample ID: 200-42213-5

Matrix: Air

Lab File ID: 29134_25.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/13/2018 08:27

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126288

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\29134_25.D		
Lims ID:	200-42213-A-5		
Client ID:	2911		
Sample Type:	Client		
Inject. Date:	13-Feb-2018 08:27:30	ALS Bottle#:	25
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029134-025		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180212-29134.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	13-Feb-2018 10:47:37	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK023		

First Level Reviewer: daiglep

Date:

13-Feb-2018 10:48:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.967					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.426					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.747					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.743					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.250					ND	
21 1,1-Dichloroethene	96	6.282					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.661					ND	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.072					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.611					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.815					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.274	0.000	94	315097	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.669				ND	
44 1,1,1-Trichloroethane	97		10.690				ND	
45 Carbon tetrachloride	117		10.946				ND	
46 Isooctane	57		11.400				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.587				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1617720	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.805				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.088				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.006				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.142				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.306	-0.006	94	1593706	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.088				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.985				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.252				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.549				ND	
98 Benzyl chloride	91		22.741				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.072				ND	
103 1,2,4-Trichlorobenzene	180		25.495				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 13-Feb-2018 10:48:40

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_25.D

Injection Date: 13-Feb-2018 08:27:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-5

Lab Sample ID: 200-42213-5

Worklist Smp#: 25

Client ID: 2911

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

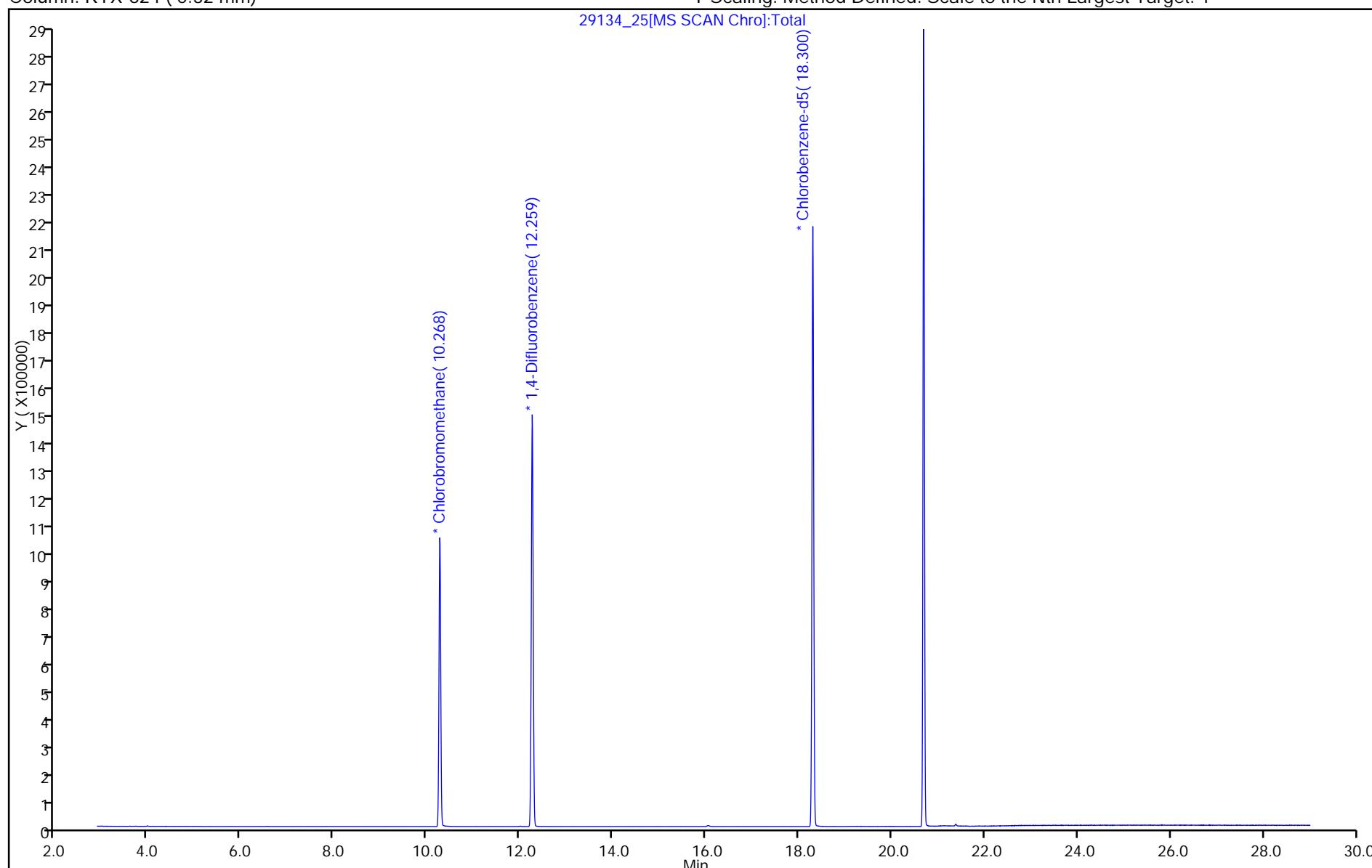
ALS Bottle#: 25

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

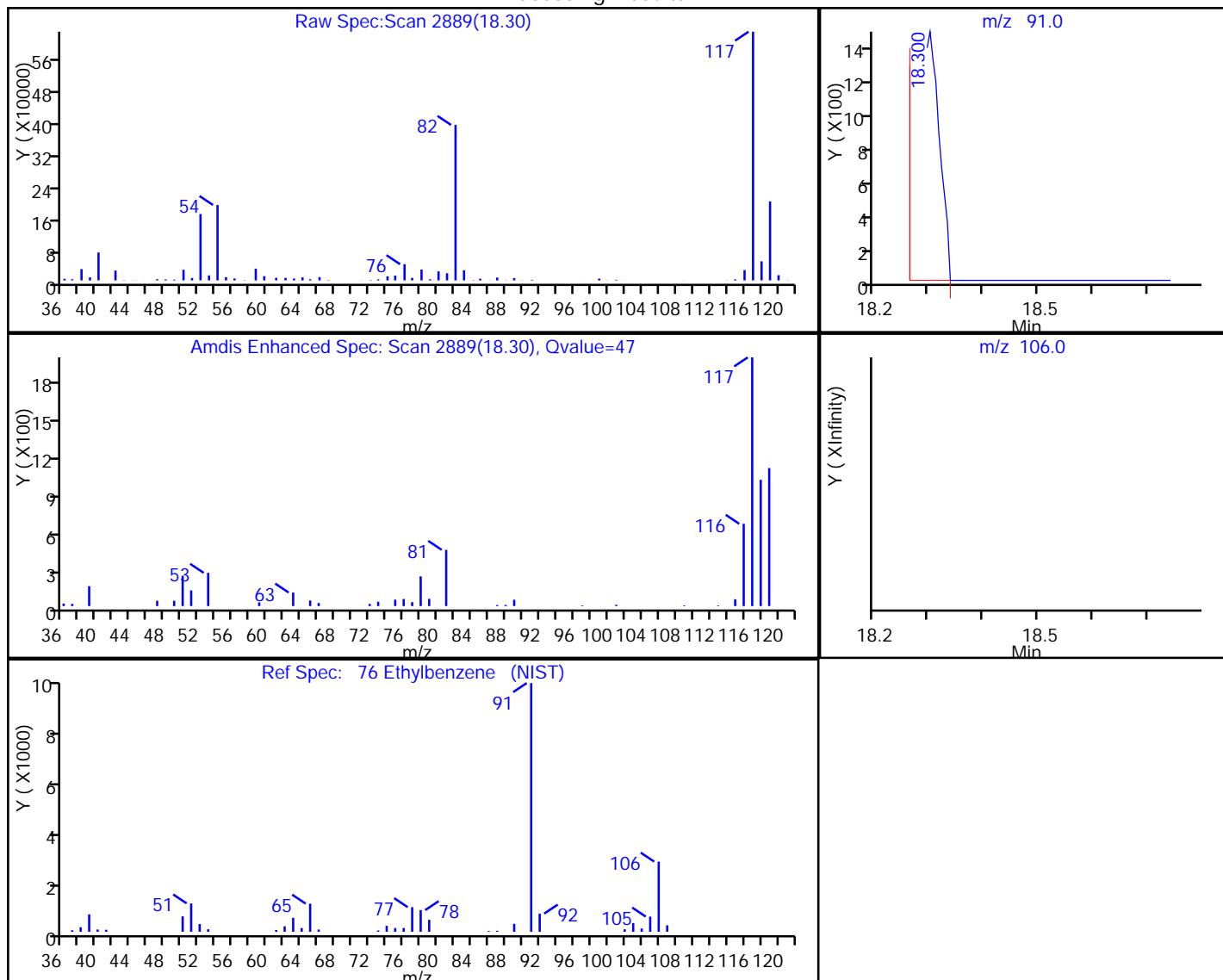


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180212-29134.b\\29134_25.D
 Injection Date: 13-Feb-2018 08:27:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-5 Lab Sample ID: 200-42213-5
 Client ID: 2911
 Operator ID: pad ALS Bottle#: 25 Worklist Smp#: 25
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3442	0.028019
18.52	106.00	0	

Reviewer: daiglep, 13-Feb-2018 10:48:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4155

Lab Sample ID: 200-42213-6

Matrix: Air

Lab File ID: 29176_07.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 15:02

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4155

Lab Sample ID: 200-42213-6

Matrix: Air

Lab File ID: 29176_07.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 15:02

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 4155

Lab Sample ID: 200-42213-6

Matrix: Air

Lab File ID: 29176_07.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 15:02

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_07.D		
Lims ID:	200-42213-A-6		
Client ID:	4155		
Sample Type:	Client		
Inject. Date:	14-Feb-2018 15:02:30	ALS Bottle#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029176-007		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK002		

First Level Reviewer: sangkuas

Date:

15-Feb-2018 08:45:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
----------	-----	-----------	---------------	---------------	---	----------	-------------------	-------

1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.268	10.273	-0.005	94	314258	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1636418	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	92	1602814	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

2

3

4

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16

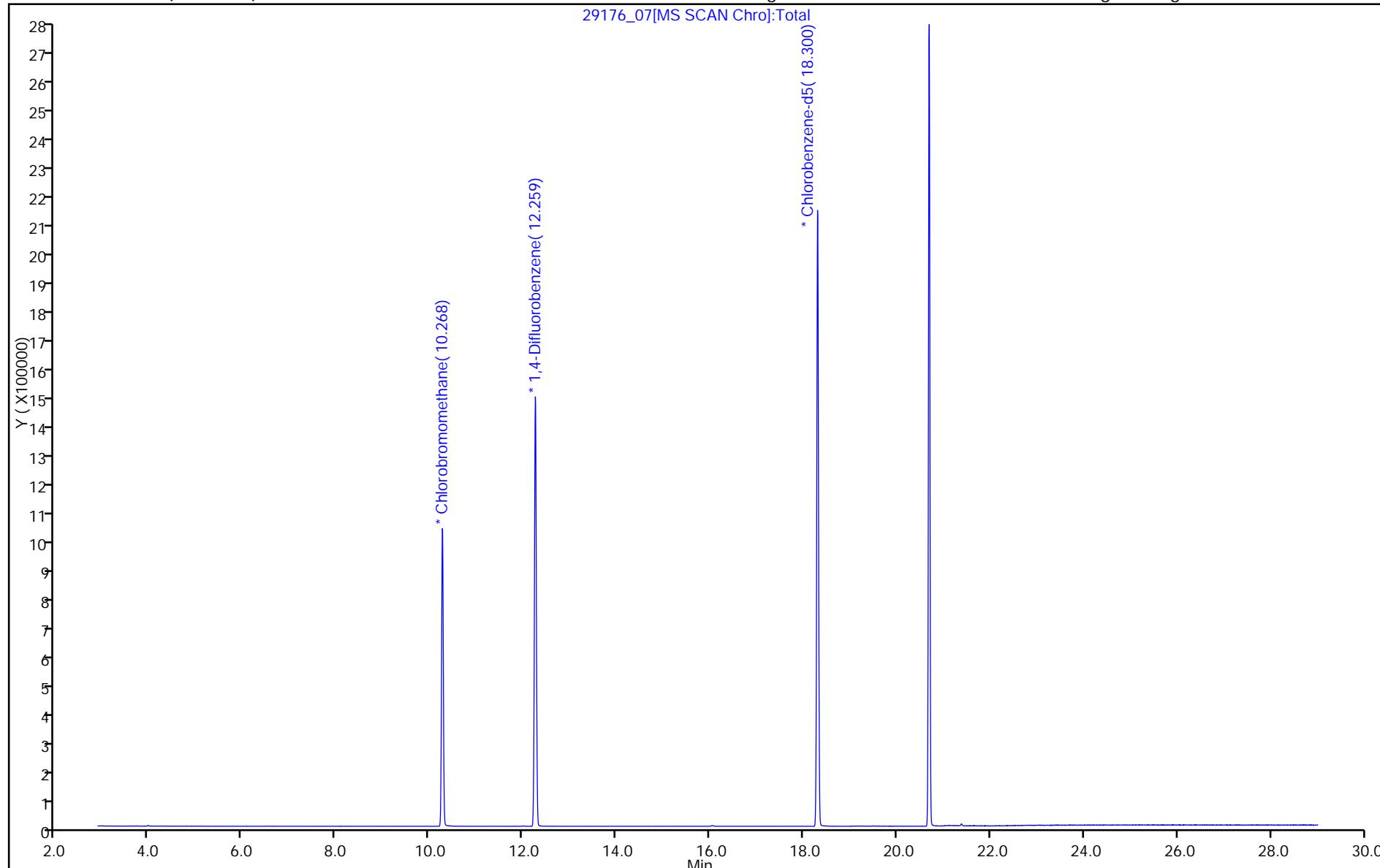
Report Date: 15-Feb-2018 10:01:29

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_07.D
Injection Date: 14-Feb-2018 15:02:30 Instrument ID: CHC.i Operator ID: pad
Lims ID: 200-42213-A-6 Lab Sample ID: 200-42213-6 Worklist Smp#: 7
Client ID: 4155
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 7
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

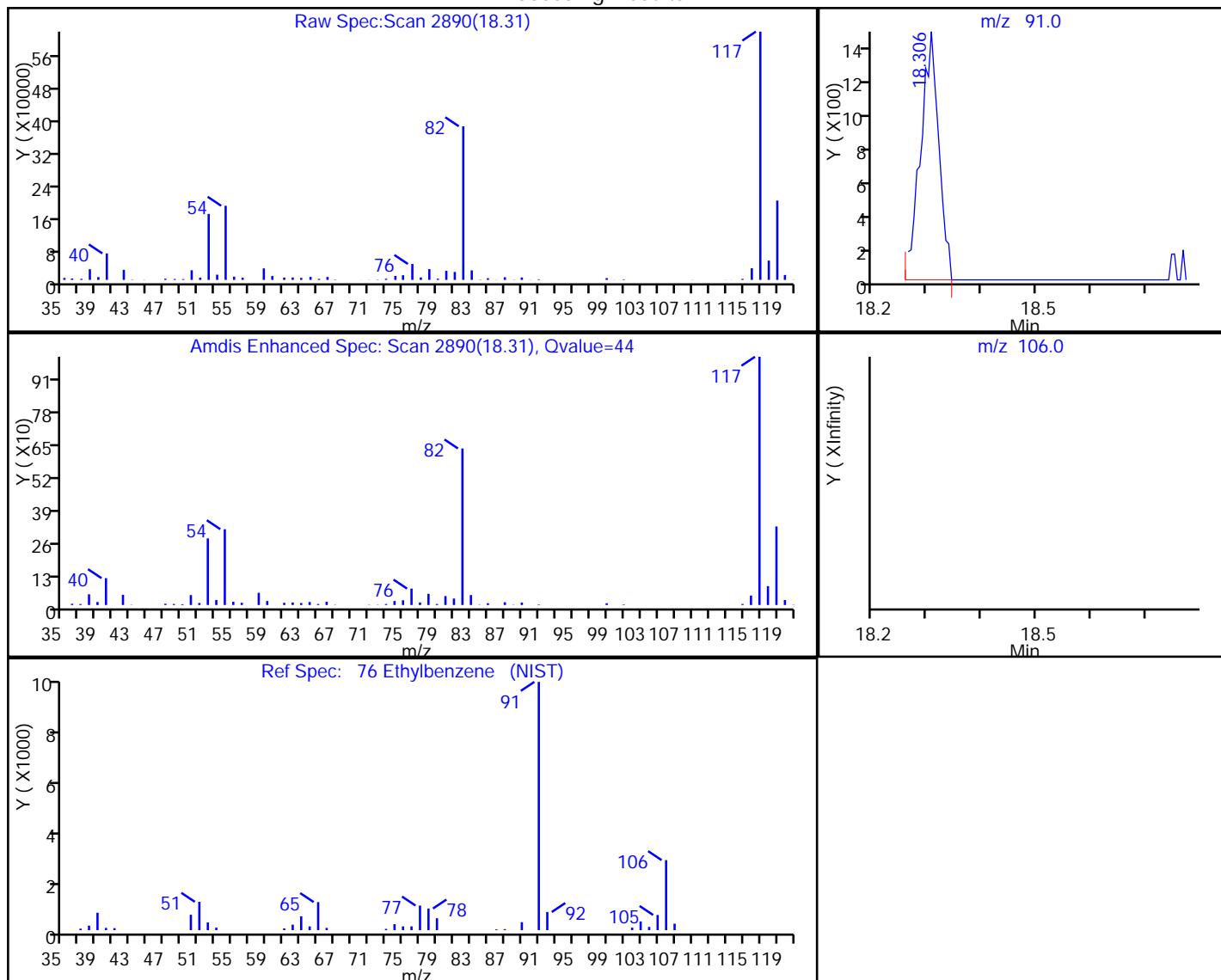
Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_07.D
 Injection Date: 14-Feb-2018 15:02:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-6 Lab Sample ID: 200-42213-6
 Client ID: 4155
 Operator ID: pad ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3429	0.027755
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:45:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5029

Lab Sample ID: 200-42213-7

Matrix: Air

Lab File ID: 29176_08.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 16:00

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5029

Lab Sample ID: 200-42213-7

Matrix: Air

Lab File ID: 29176_08.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 16:00

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5029

Lab Sample ID: 200-42213-7

Matrix: Air

Lab File ID: 29176_08.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 16:00

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_08.D		
Lims ID:	200-42213-A-7		
Client ID:	5029		
Sample Type:	Client		
Inject. Date:	14-Feb-2018 16:00:30	ALS Bottle#:	8
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029176-008		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK002		

First Level Reviewer: sangkuas

Date:

15-Feb-2018 08:46:57

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
----------	-----	-----------	---------------	---------------	---	----------	-------------------	-------

1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.273	10.273	0.000	94	315640	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.264	12.264	0.000	97	1650716	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.306	18.305	0.001	92	1606306	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

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Report Date: 15-Feb-2018 10:01:53

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_08.D

Injection Date: 14-Feb-2018 16:00:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-7

Lab Sample ID: 200-42213-7

Worklist Smp#: 8

Client ID: 5029

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

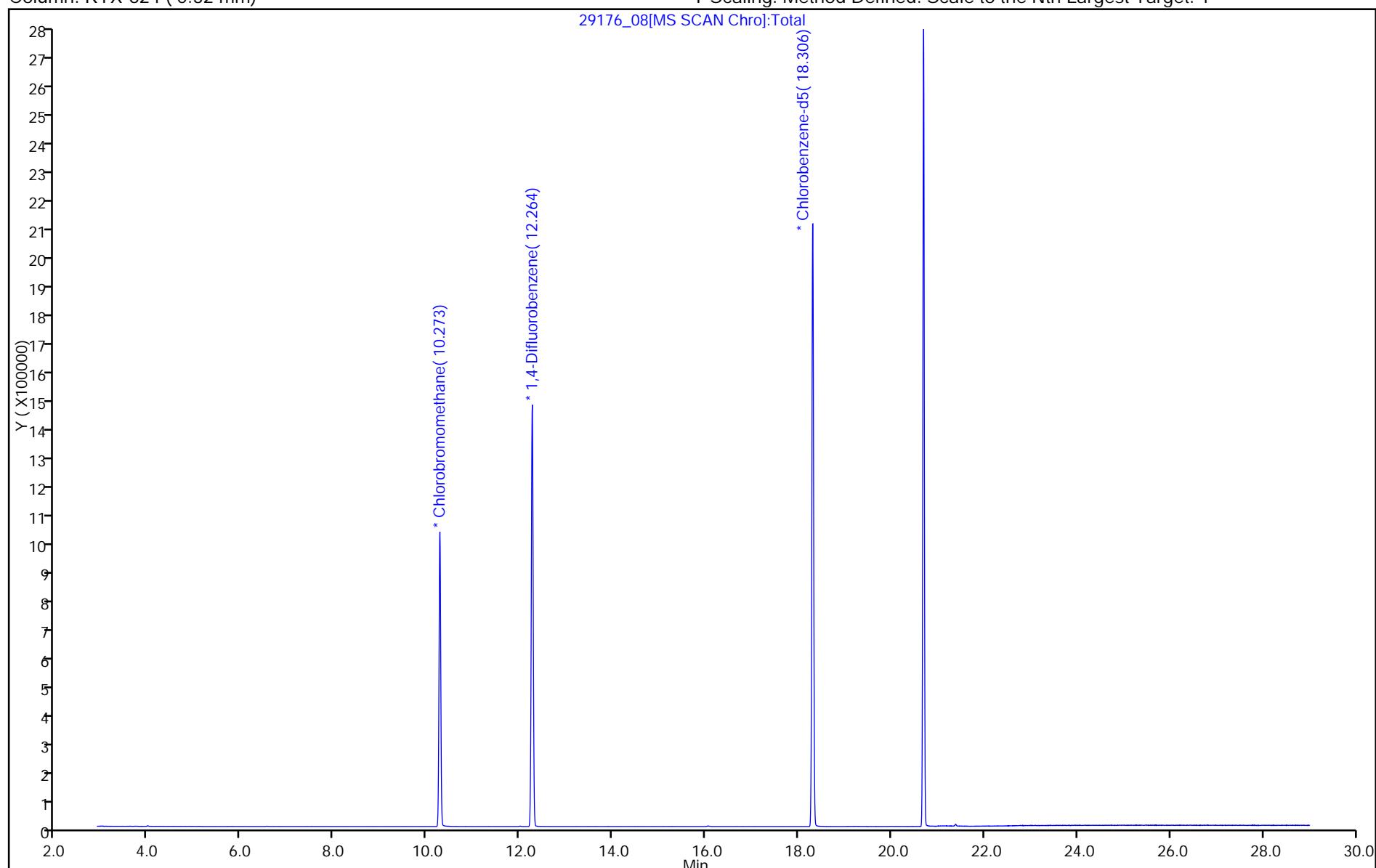
ALS Bottle#: 8

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



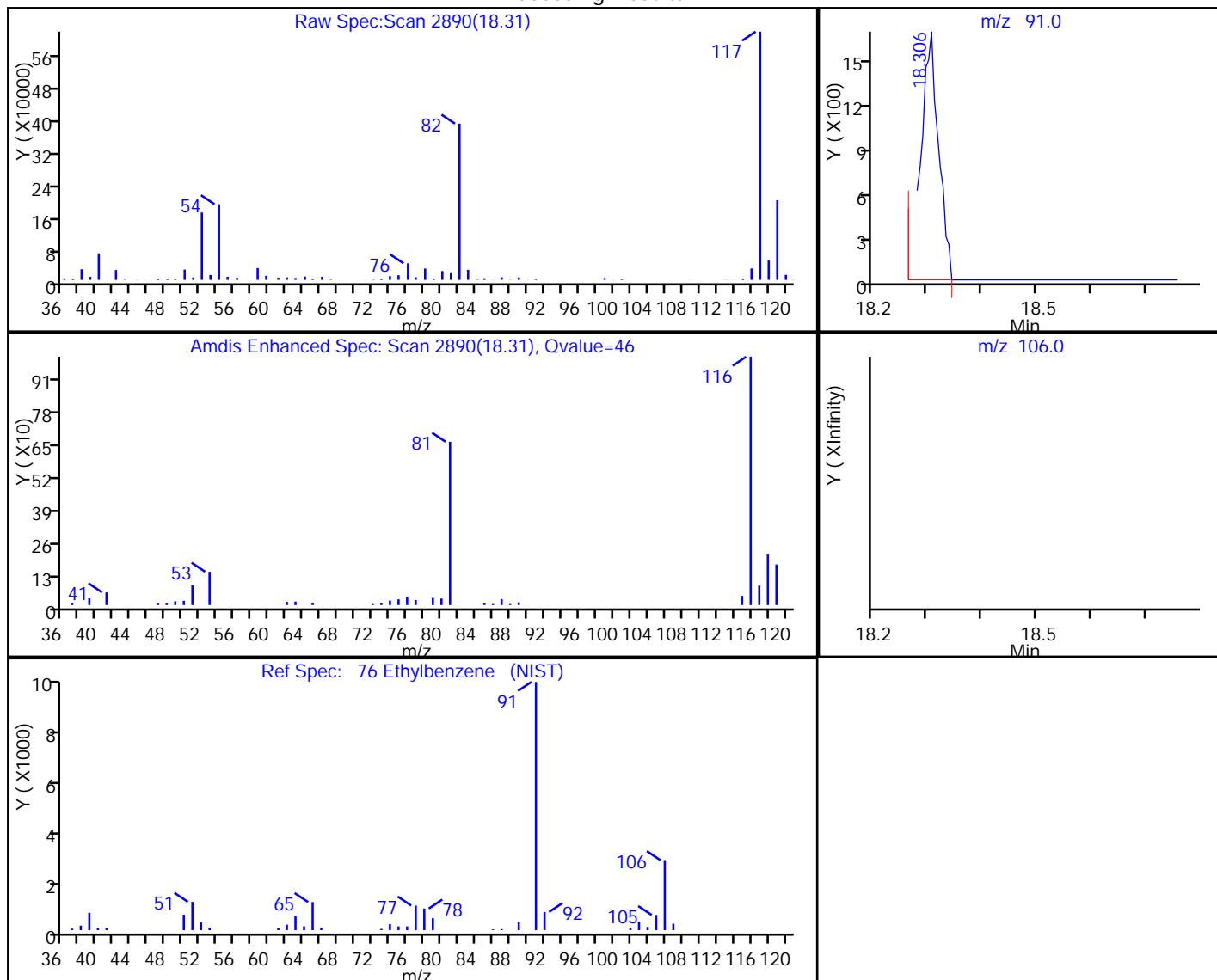
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TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_08.D
 Injection Date: 14-Feb-2018 16:00:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-7 Lab Sample ID: 200-42213-7
 Client ID: 5029
 Operator ID: pad ALS Bottle#: 8 Worklist Smp#: 8
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3567	0.028809
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:46:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3659

Lab Sample ID: 200-42213-8

Matrix: Air

Lab File ID: 29176_09.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 16:58

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3659

Lab Sample ID: 200-42213-8

Matrix: Air

Lab File ID: 29176_09.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 16:58

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-42213-1
 SDG No.:
 Client Sample ID: 3659 Lab Sample ID: 200-42213-8
 Matrix: Air Lab File ID: 29176_09.D
 Analysis Method: TO-15 Date Collected: 02/10/2018 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 02/14/2018 16:58
 Soil Aliquot Vol: Dilution Factor: 0.2
 Soil Extract Vol.: GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 126372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_09.D		
Lims ID:	200-42213-A-8		
Client ID:	3659		
Sample Type:	Client		
Inject. Date:	14-Feb-2018 16:58:30	ALS Bottle#:	9
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029176-009		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK002		

First Level Reviewer: sangkuas

Date:

15-Feb-2018 08:48:16

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.273	0.001	94	311410	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1626060	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	92	1584096	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

1

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Report Date: 15-Feb-2018 10:02:21

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_09.D

Injection Date: 14-Feb-2018 16:58:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-8

Lab Sample ID: 200-42213-8

Worklist Smp#: 9

Client ID: 3659

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

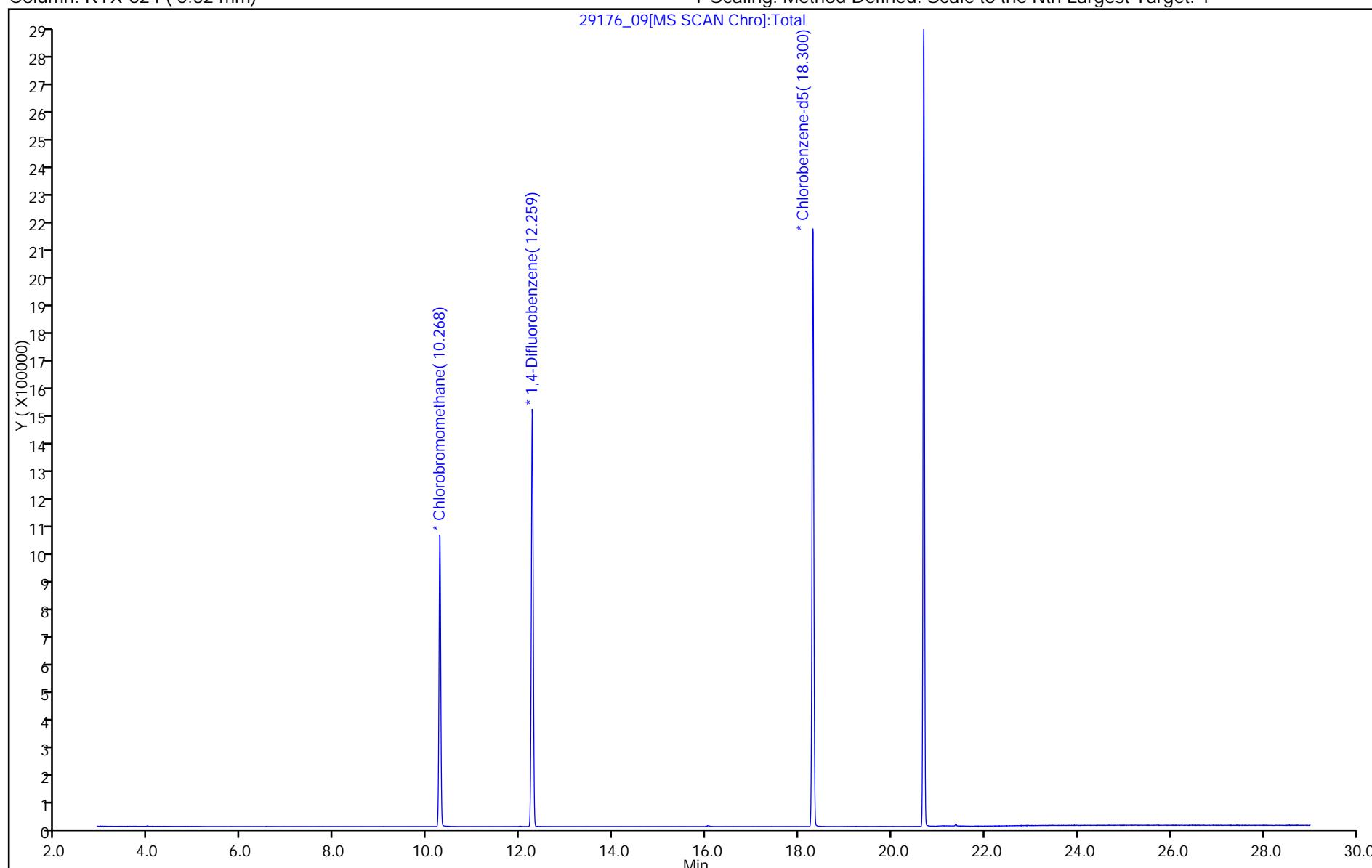
ALS Bottle#: 9

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

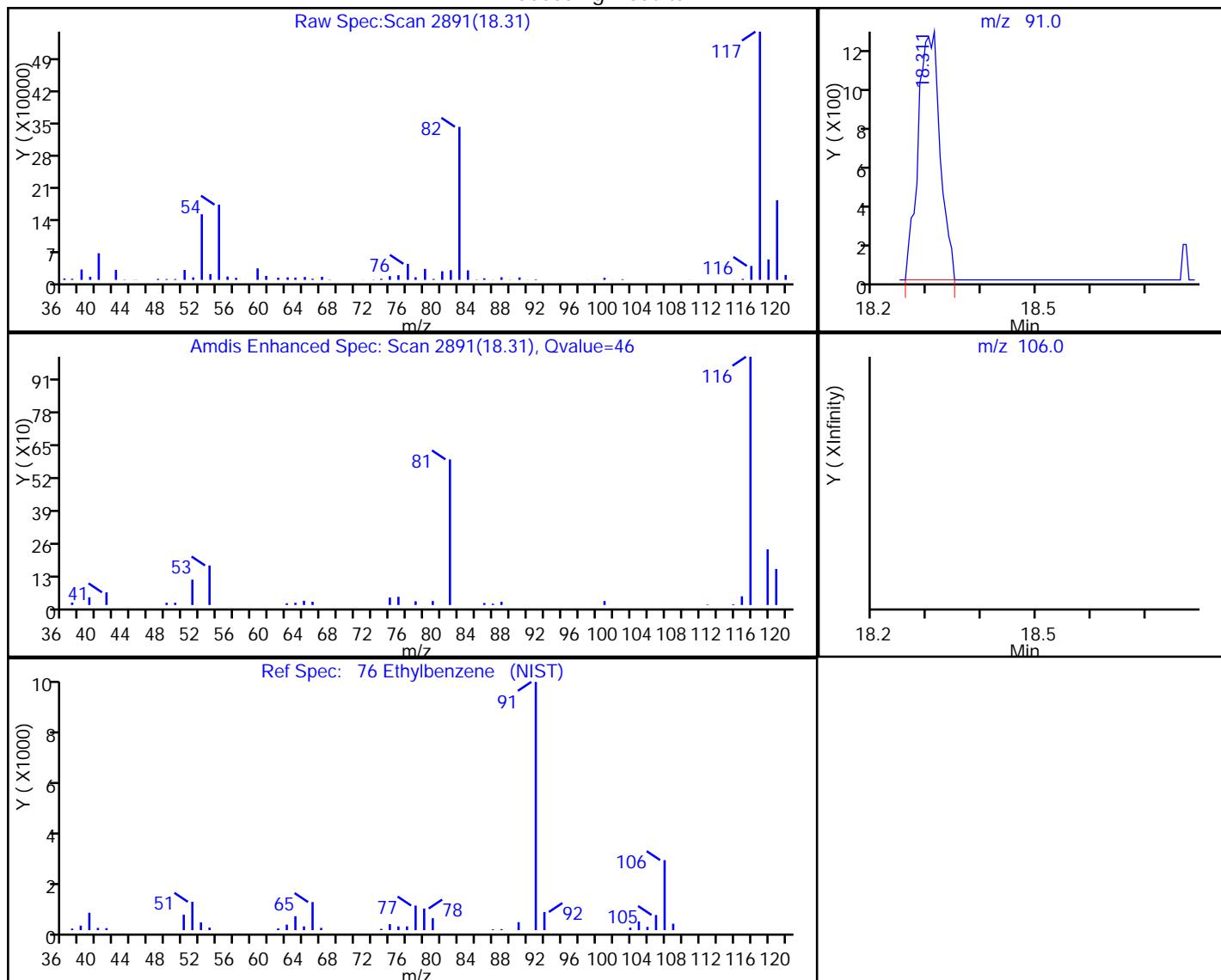
Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_09.D
 Injection Date: 14-Feb-2018 16:58:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-8 Lab Sample ID: 200-42213-8
 Client ID: 3659
 Operator ID: pad ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3597	0.029459
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:48:16

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5032

Lab Sample ID: 200-42213-9

Matrix: Air

Lab File ID: 29176_10.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 17:56

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5032

Lab Sample ID: 200-42213-9

Matrix: Air

Lab File ID: 29176_10.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 17:56

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-42213-1
 SDG No.:
 Client Sample ID: 5032 Lab Sample ID: 200-42213-9
 Matrix: Air Lab File ID: 29176_10.D
 Analysis Method: TO-15 Date Collected: 02/10/2018 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 02/14/2018 17:56
 Soil Aliquot Vol: Dilution Factor: 0.2
 Soil Extract Vol.: GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: Level: (low/med) Low
 Analysis Batch No.: 126372 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_10.D		
Lims ID:	200-42213-A-9		
Client ID:	5032		
Sample Type:	Client		
Inject. Date:	14-Feb-2018 17:56:30	ALS Bottle#:	10
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029176-010		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK002		

First Level Reviewer: sangkuas

Date:

15-Feb-2018 08:54:00

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.273	0.001	94	305817	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1585811	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	93	1558037	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 15-Feb-2018 10:02:45

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_10.D

Injection Date: 14-Feb-2018 17:56:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42213-A-9

Lab Sample ID: 200-42213-9

Worklist Smp#: 10

Client ID: 5032

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

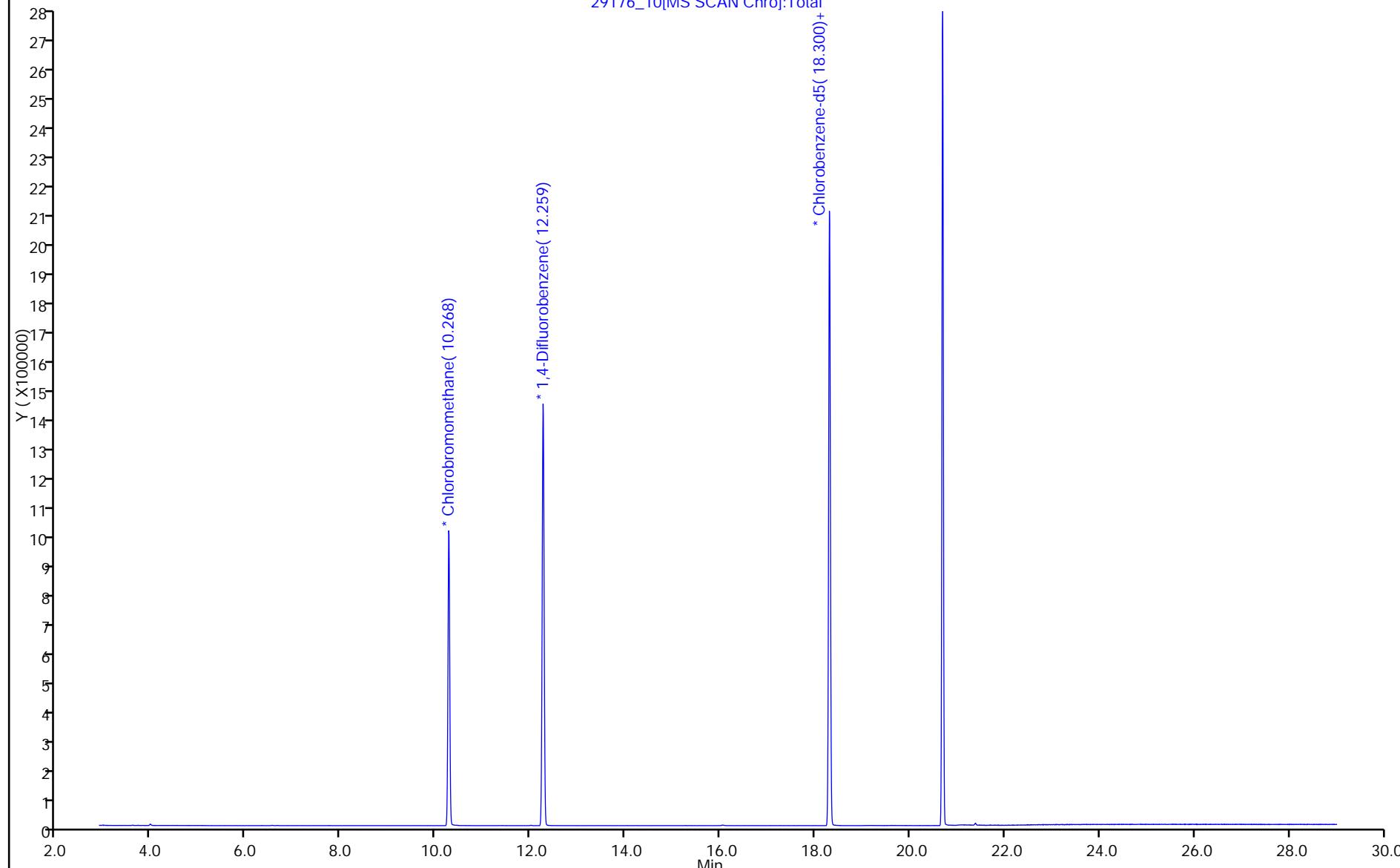
ALS Bottle#: 10

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

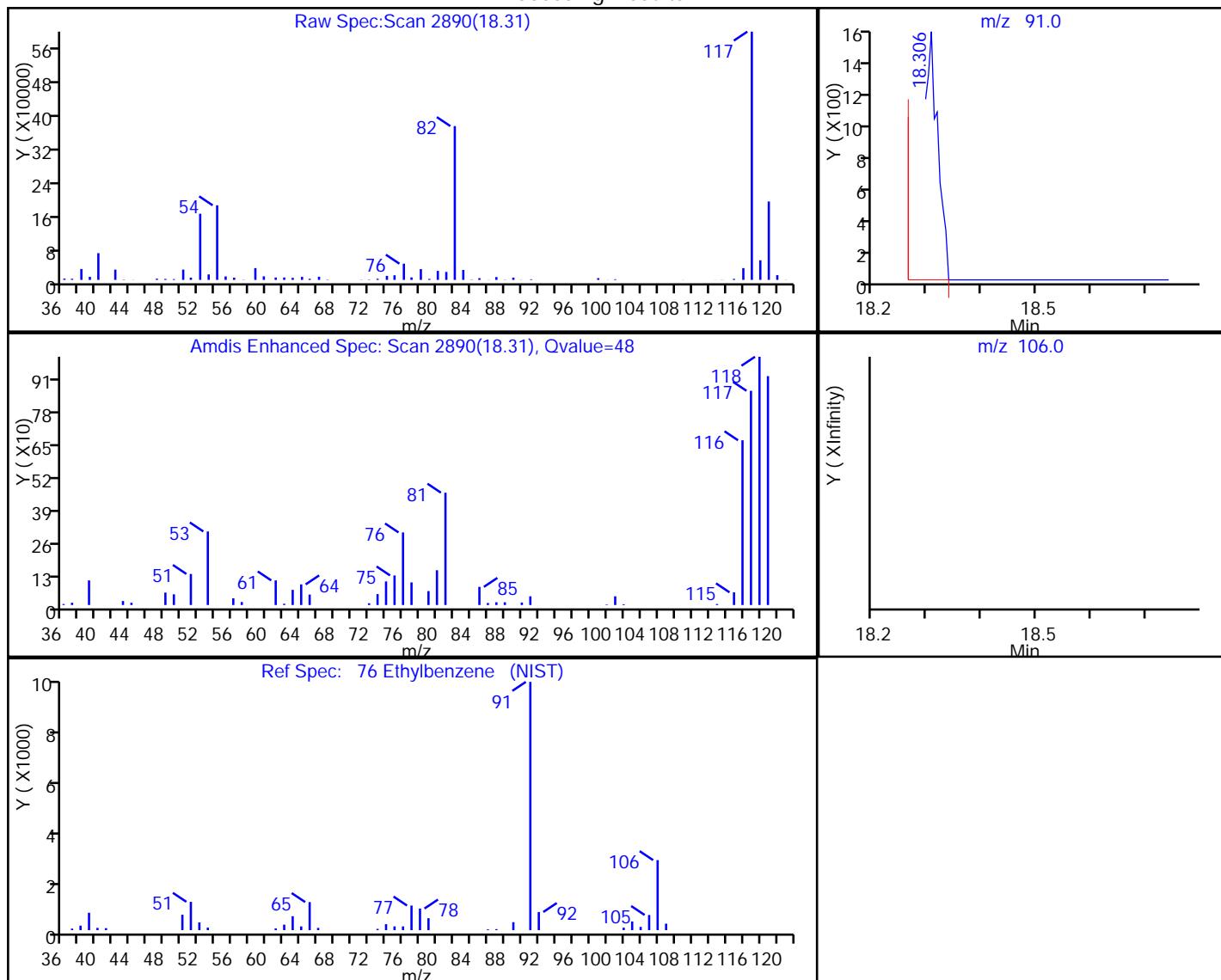


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_10.D
 Injection Date: 14-Feb-2018 17:56:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-9 Lab Sample ID: 200-42213-9
 Client ID: 5032
 Operator ID: pad ALS Bottle#: 10 Worklist Smp#: 10
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3180	0.026479
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:54:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3248

Lab Sample ID: 200-42213-10

Matrix: Air

Lab File ID: 29176_11.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 18:55

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3248

Lab Sample ID: 200-42213-10

Matrix: Air

Lab File ID: 29176_11.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 18:55

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3248

Lab Sample ID: 200-42213-10

Matrix: Air

Lab File ID: 29176_11.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 18:55

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_11.D		
Lims ID:	200-42213-A-10		
Client ID:	3248		
Sample Type:	Client		
Inject. Date:	14-Feb-2018 18:55:30	ALS Bottle#:	11
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029176-011		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK002		

First Level Reviewer: sangkuas

Date:

15-Feb-2018 08:55:41

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	U
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.273	10.273	0.000	94	304502	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1569997	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	92	1534483	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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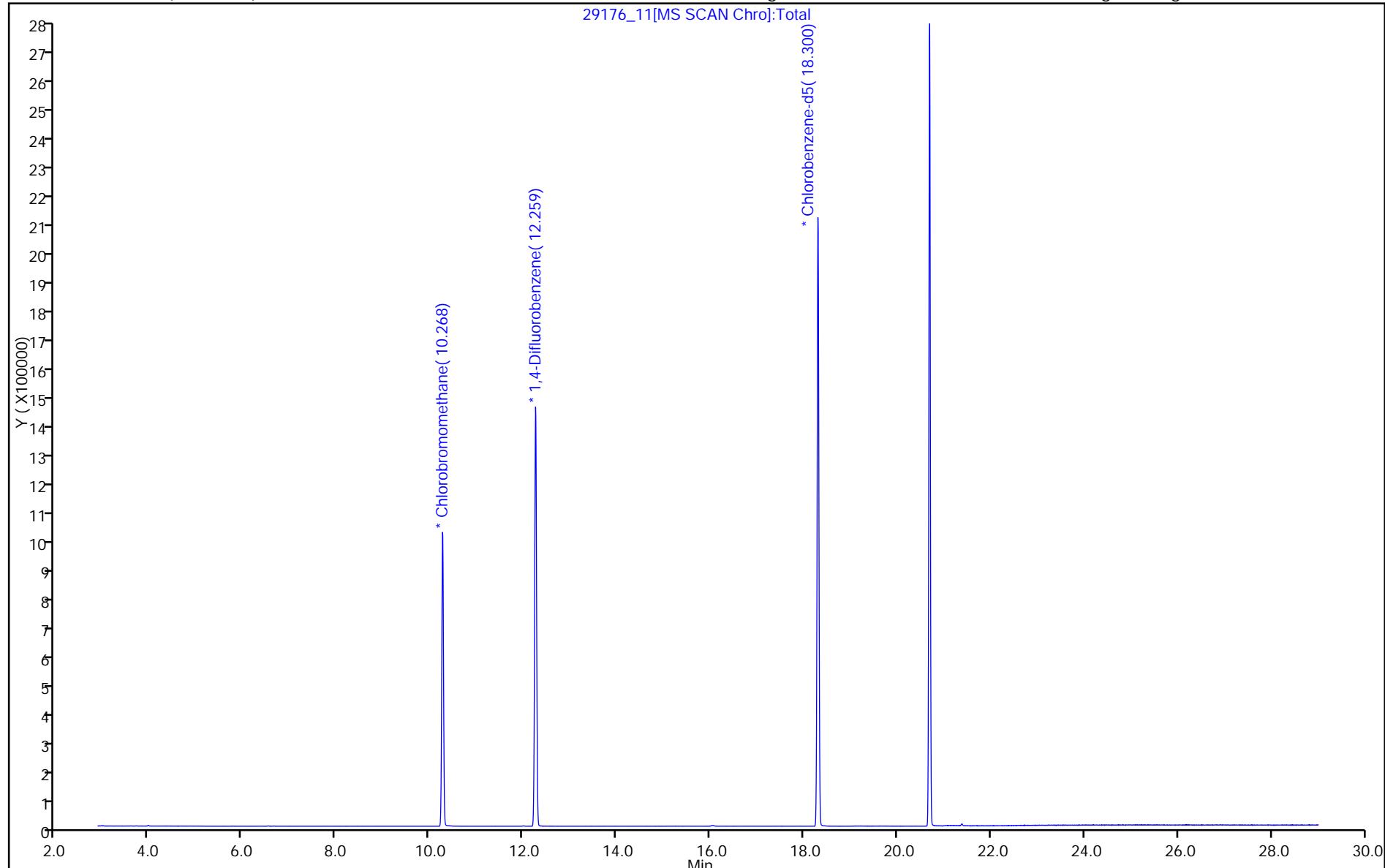
Report Date: 15-Feb-2018 10:03:10

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_11.D
Injection Date: 14-Feb-2018 18:55:30 Instrument ID: CHC.i Operator ID: pad
Lims ID: 200-42213-A-10 Lab Sample ID: 200-42213-10 Worklist Smp#: 11
Client ID: 3248
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 11
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

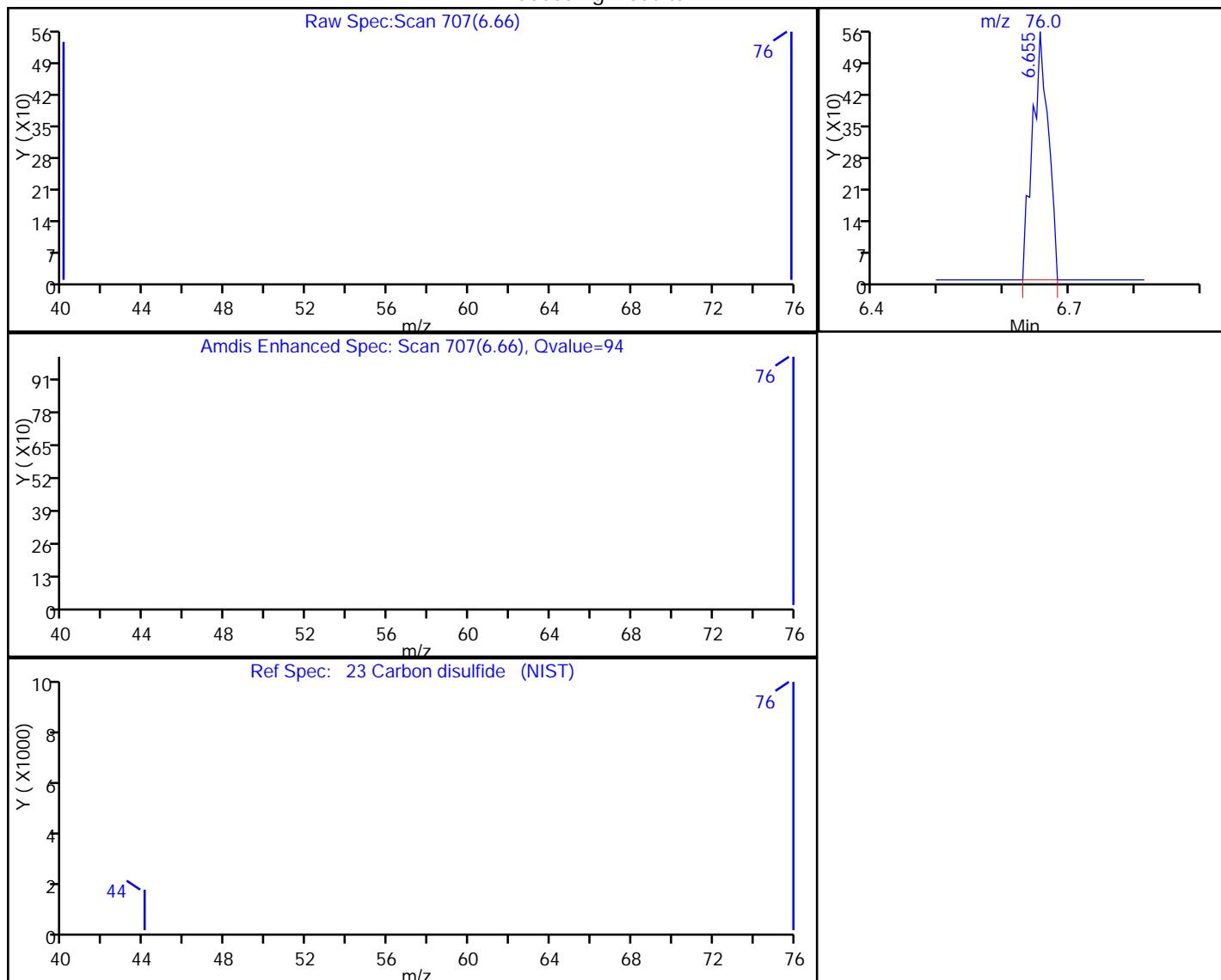


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_11.D
 Injection Date: 14-Feb-2018 18:55:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-10 Lab Sample ID: 200-42213-10
 Client ID: 3248
 Operator ID: pad ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Processing Results



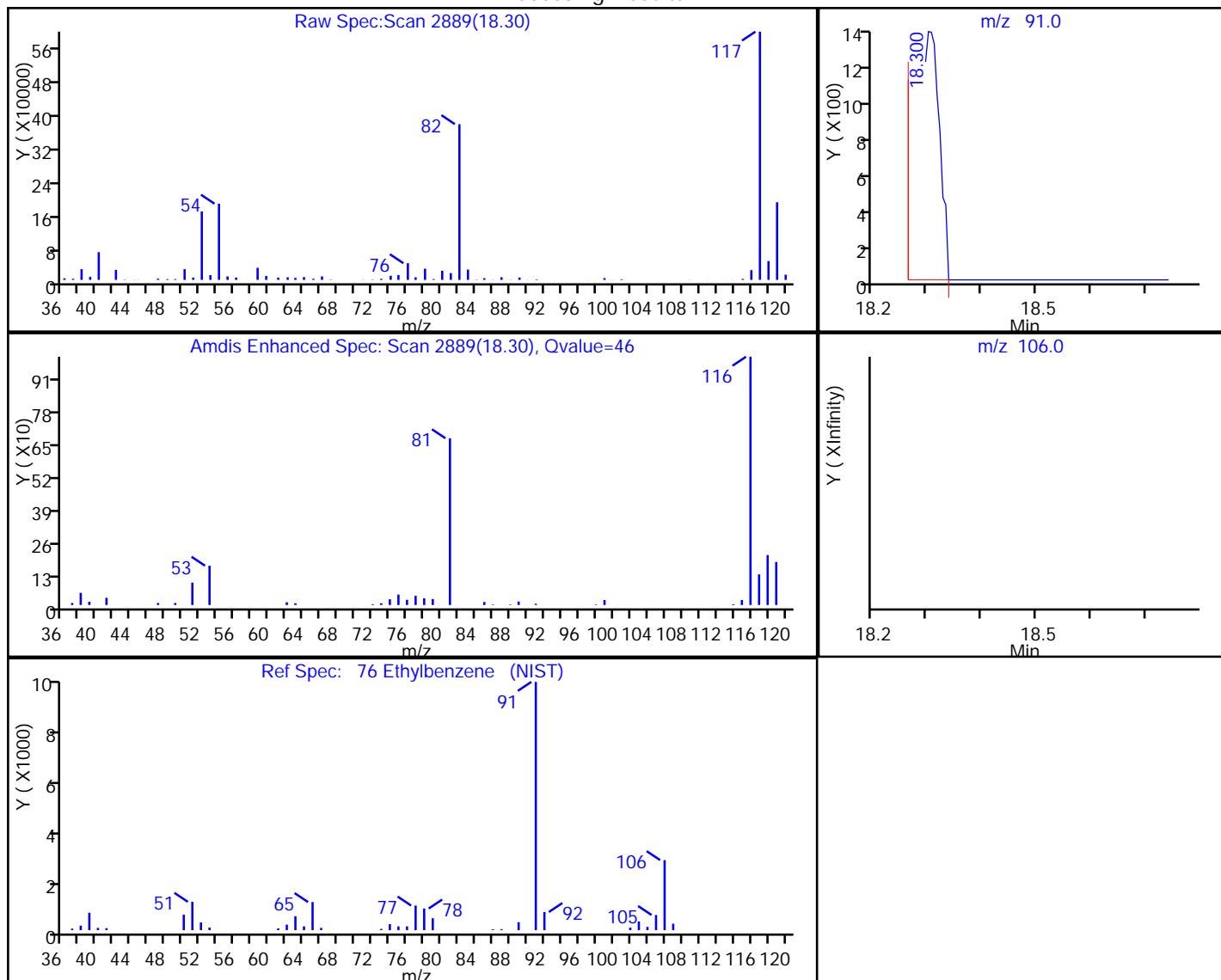
Reviewer: sangkuas, 15-Feb-2018 08:55:41
 Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_11.D
 Injection Date: 14-Feb-2018 18:55:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-10 Lab Sample ID: 200-42213-10
 Client ID: 3248
 Operator ID: pad ALS Bottle#: 11 Worklist Smp#: 11
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3459	0.029245
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:55:41

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3161

Lab Sample ID: 200-42213-11

Matrix: Air

Lab File ID: 29176_12.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 19:53

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3161

Lab Sample ID: 200-42213-11

Matrix: Air

Lab File ID: 29176_12.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 19:53

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 3161

Lab Sample ID: 200-42213-11

Matrix: Air

Lab File ID: 29176_12.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 19:53

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_12.D			
Lims ID:	200-42213-A-11			
Client ID:	3161			
Sample Type:	Client			
Inject. Date:	14-Feb-2018 19:53:30	ALS Bottle#:	12	Worklist Smp#:
Purge Vol:	200.000 mL	Dil. Factor:	0.2000	
Sample Info:	200-0029176-012			
Operator ID:	pad	Instrument ID:	CHC.i	
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m			
Limit Group:	AI_TO15_ICAL			
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30	
Integrator:	RTE	ID Type:	Deconvolution ID	
Quant Method:	Internal Standard	Quant By:	Initial Calibration	
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D			
Column 1 :	RTX-624 (0.32 mm)	Det: MS SCAN		
Process Host:	XAWRK002			
First Level Reviewer:	sangkuas	Date:	15-Feb-2018 08:57:27	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.421					ND	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655					ND	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.273	0.001	94	297894	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.264	12.264	0.000	98	1543685	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	92	1512693	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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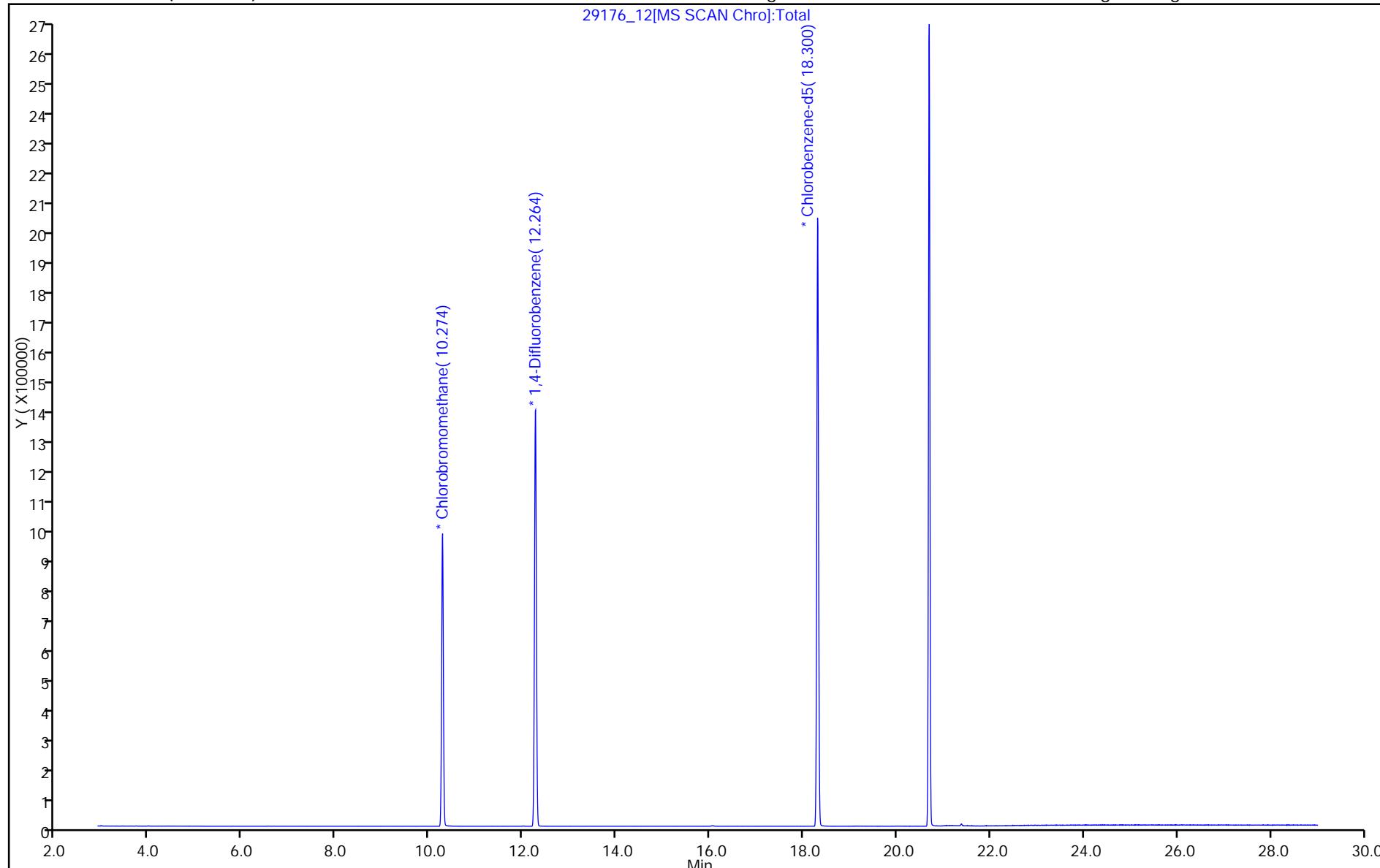
Report Date: 15-Feb-2018 10:03:36

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_12.D
Injection Date: 14-Feb-2018 19:53:30 Instrument ID: CHC.i Operator ID: pad
Lims ID: 200-42213-A-11 Lab Sample ID: 200-42213-11 Worklist Smp#: 12
Client ID: 3161
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 12
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

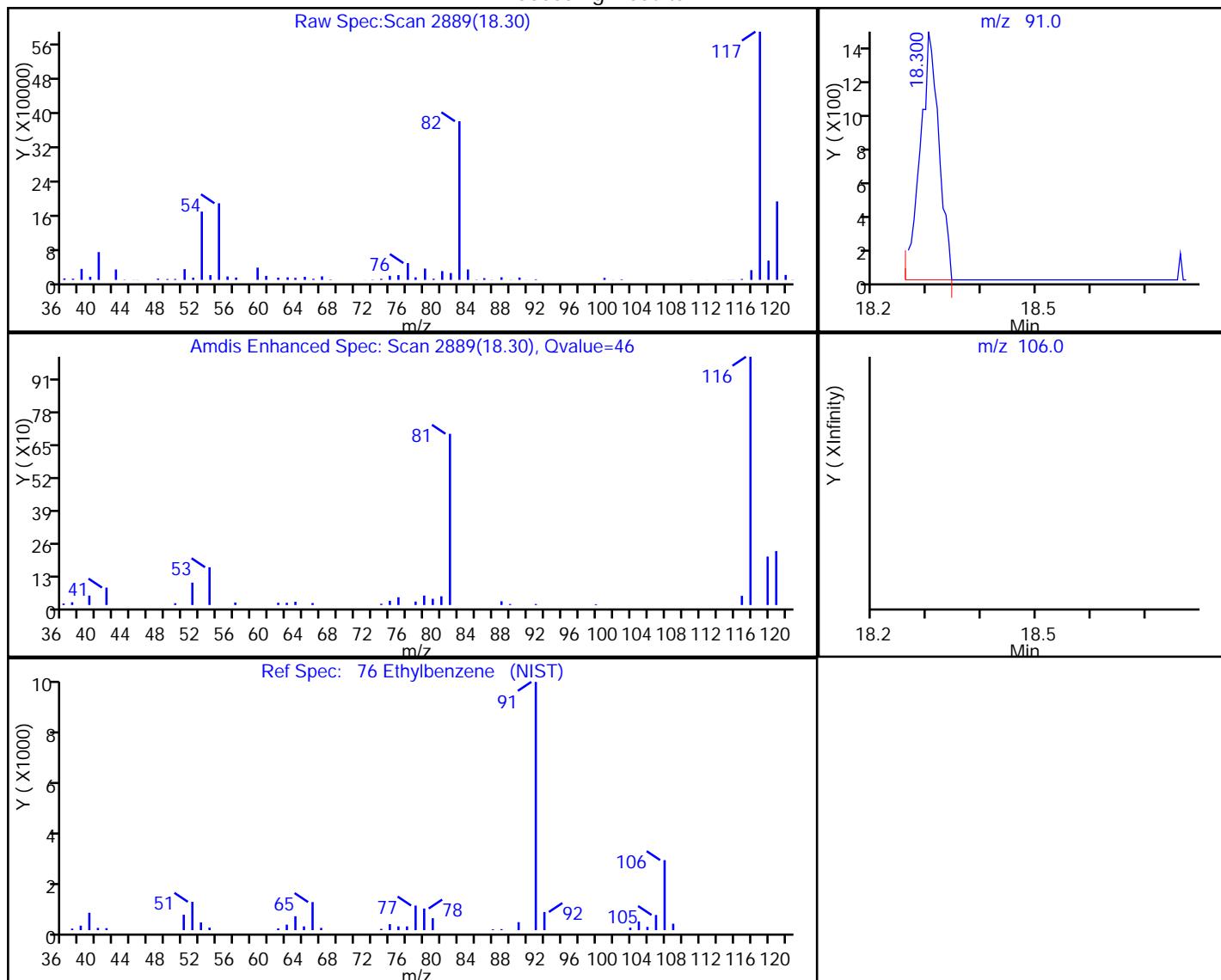


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_12.D
 Injection Date: 14-Feb-2018 19:53:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-11 Lab Sample ID: 200-42213-11
 Client ID: 3161
 Operator ID: pad ALS Bottle#: 12 Worklist Smp#: 12
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3386	0.029040
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 08:57:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5902

Lab Sample ID: 200-42213-12

Matrix: Air

Lab File ID: 29176_13.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 20:51

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5902

Lab Sample ID: 200-42213-12

Matrix: Air

Lab File ID: 29176_13.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 20:51

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42213-1

SDG No.: _____

Client Sample ID: 5902

Lab Sample ID: 200-42213-12

Matrix: Air

Lab File ID: 29176_13.D

Analysis Method: TO-15

Date Collected: 02/10/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/14/2018 20:51

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126372

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\29176_13.D							
Lims ID:	200-42213-A-12							
Client ID:	5902							
Sample Type:	Client							
Inject. Date:	14-Feb-2018 20:51:30	ALS Bottle#:	13	Worklist Smp#:	13			
Purge Vol:	200.000 mL	Dil. Factor:	0.2000					
Sample Info:	200-0029176-013							
Operator ID:	pad	Instrument ID:	CHC.i					
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180214-29176.b\TO15_MasterMethod_(v1)_CHC.i.m							
Limit Group:	AI_TO15_ICAL							
Last Update:	15-Feb-2018 07:13:17	Calib Date:	26-Jan-2018 01:35:30					
Integrator:	RTE	ID Type:	Deconvolution ID					
Quant Method:	Internal Standard	Quant By:	Initial Calibration					
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D							
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN					
Process Host:	XAWRK002							
First Level Reviewer:	sangkuas	Date:	15-Feb-2018 11:03:42					
Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	2.962					ND	
2 Dichlorodifluoromethane	85	3.031					ND	
3 Chlorodifluoromethane	51	3.085					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.293					ND	
5 Chloromethane	50	3.426	3.421	0.005	98	3346	0.1248	
6 Butane	43	3.624					ND	
7 Vinyl chloride	62	3.666					ND	
8 Butadiene	54	3.741					ND	
10 Bromomethane	94	4.414					ND	
11 Chloroethane	64	4.654					ND	
13 Vinyl bromide	106	5.043					ND	
14 Trichlorofluoromethane	101	5.155					ND	
17 Ethanol	45	5.737					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.249					ND	
21 1,1-Dichloroethene	96	6.276					ND	
22 Acetone	43	6.500					ND	
23 Carbon disulfide	76	6.655	6.655	0.000	98	1387	0.0257	
24 Isopropyl alcohol	45	6.826					ND	
25 3-Chloro-1-propene	41	7.071					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.605					ND	
29 Methyl tert-butyl ether	73	7.781					ND	
31 trans-1,2-Dichloroethene	61	7.818					ND	
33 Hexane	57	8.219					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.846					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.273	0.001	94	302838	10.0	
41 Tetrahydrofuran	42	10.273					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.581				ND	
49 n-Heptane	43		11.800				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1565446	10.0	
53 Trichloroethene	95		12.728				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.513				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.854				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	92	1535944	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.602				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.358				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.494				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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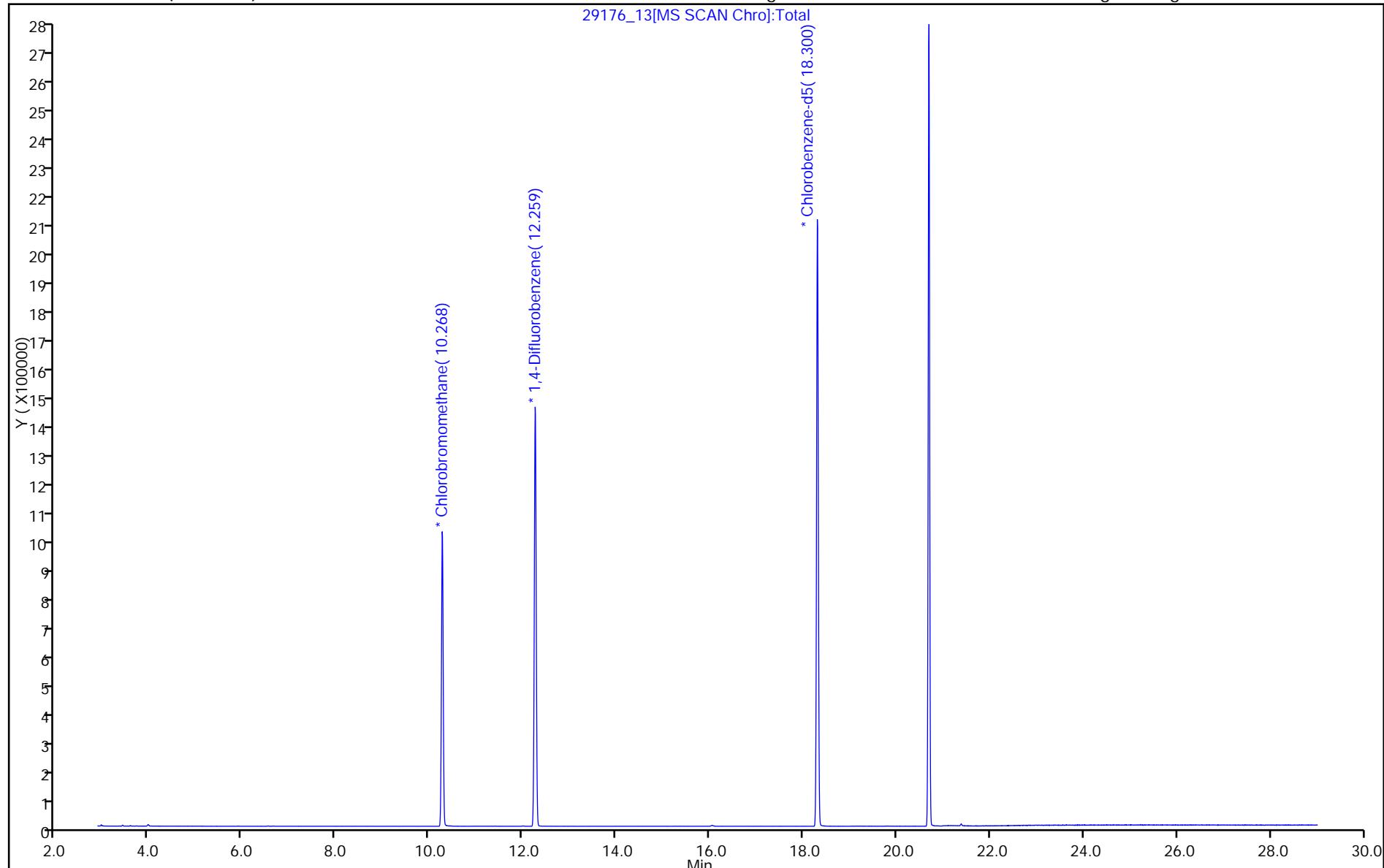
Report Date: 15-Feb-2018 10:04:06

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_13.D
Injection Date: 14-Feb-2018 20:51:30 Instrument ID: CHC.i Operator ID: pad
Lims ID: 200-42213-A-12 Lab Sample ID: 200-42213-12 Worklist Smp#: 13
Client ID: 5902
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 13
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



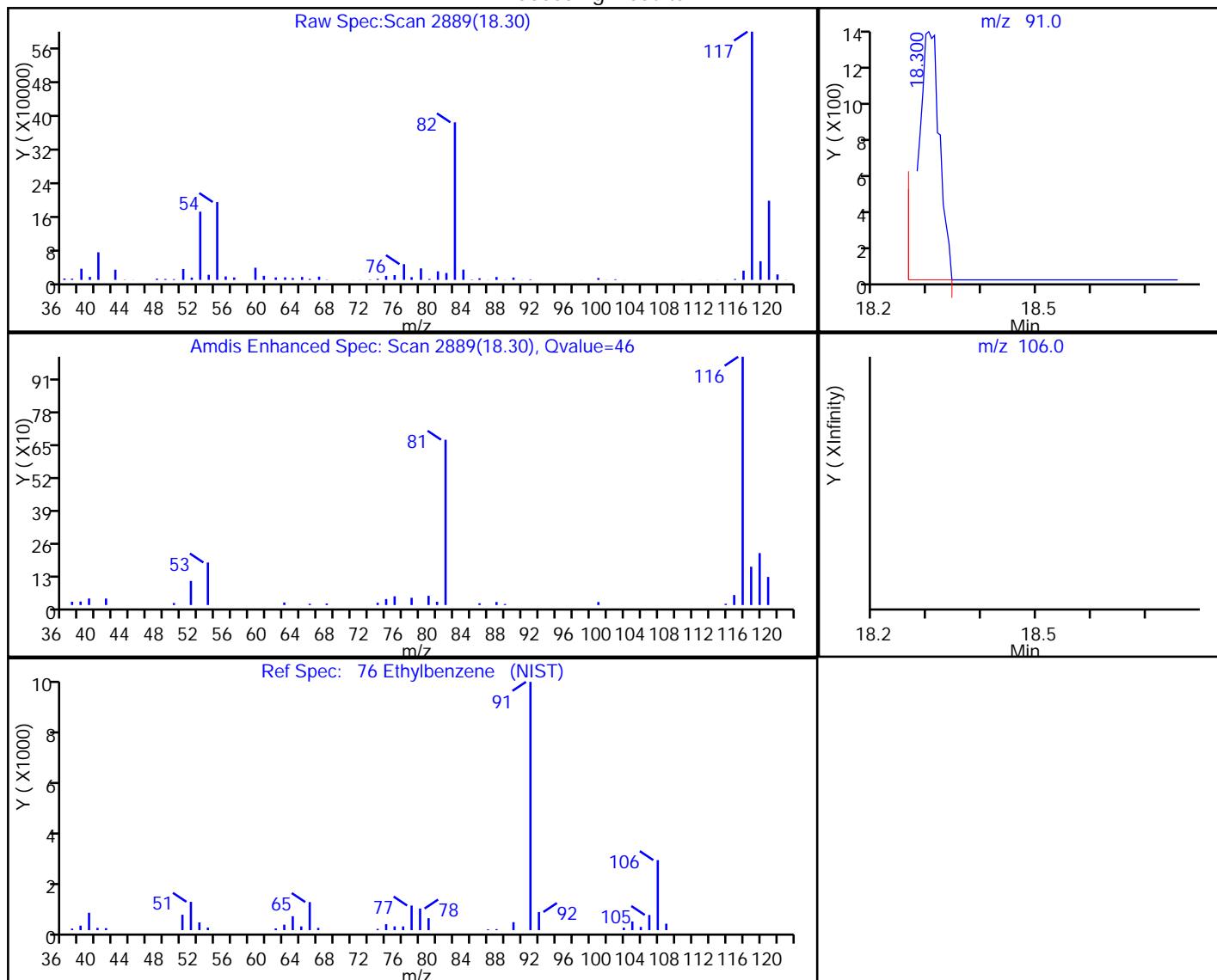
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TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180214-29176.b\\29176_13.D
 Injection Date: 14-Feb-2018 20:51:30 Instrument ID: CHC.i
 Lims ID: 200-42213-A-12 Lab Sample ID: 200-42213-12
 Client ID: 5902
 Operator ID: pad ALS Bottle#: 13 Worklist Smp#: 13
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3462	0.029242
18.52	106.00	0	

Reviewer: sangkuas, 15-Feb-2018 11:03:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42287-1

SDG No.: _____

Client Sample ID: 3654

Lab Sample ID: 200-42287-6

Matrix: Air

Lab File ID: 29254_07.D

Analysis Method: TO-15

Date Collected: 02/17/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/20/2018 15:06

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126552

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42287-1

SDG No.: _____

Client Sample ID: 3654

Lab Sample ID: 200-42287-6

Matrix: Air

Lab File ID: 29254_07.D

Analysis Method: TO-15

Date Collected: 02/17/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/20/2018 15:06

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126552

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42287-1

SDG No.: _____

Client Sample ID: 3654

Lab Sample ID: 200-42287-6

Matrix: Air

Lab File ID: 29254_07.D

Analysis Method: TO-15

Date Collected: 02/17/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/20/2018 15:06

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126552

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180220-29254.b\29254_07.D		
Lims ID:	200-42287-A-6		
Client ID:	3654		
Sample Type:	Client		
Inject. Date:	20-Feb-2018 15:06:30	ALS Bottle#:	7
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029254-007		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180220-29254.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	21-Feb-2018 13:56:48	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK018		

First Level Reviewer: puangmaleek

Date:

21-Feb-2018 13:58:36

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
----------	-----	-----------	---------------	---------------	---	----------	-------------------	-------

1 Propene	41	2.973					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.432					ND	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.746					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.742					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.255					ND	
21 1,1-Dichloroethene	96	6.281					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.660					ND	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.077					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.610					ND	
29 Methyl tert-butyl ether	73	7.786					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.279	-0.005	93	286722	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.586				ND	
49 n-Heptane	43		11.805				ND	
* 50 1,4-Difluorobenzene	114	12.264	12.264	0.000	98	1496394	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.518				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.300	18.305	-0.005	93	1444099	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.353				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.489				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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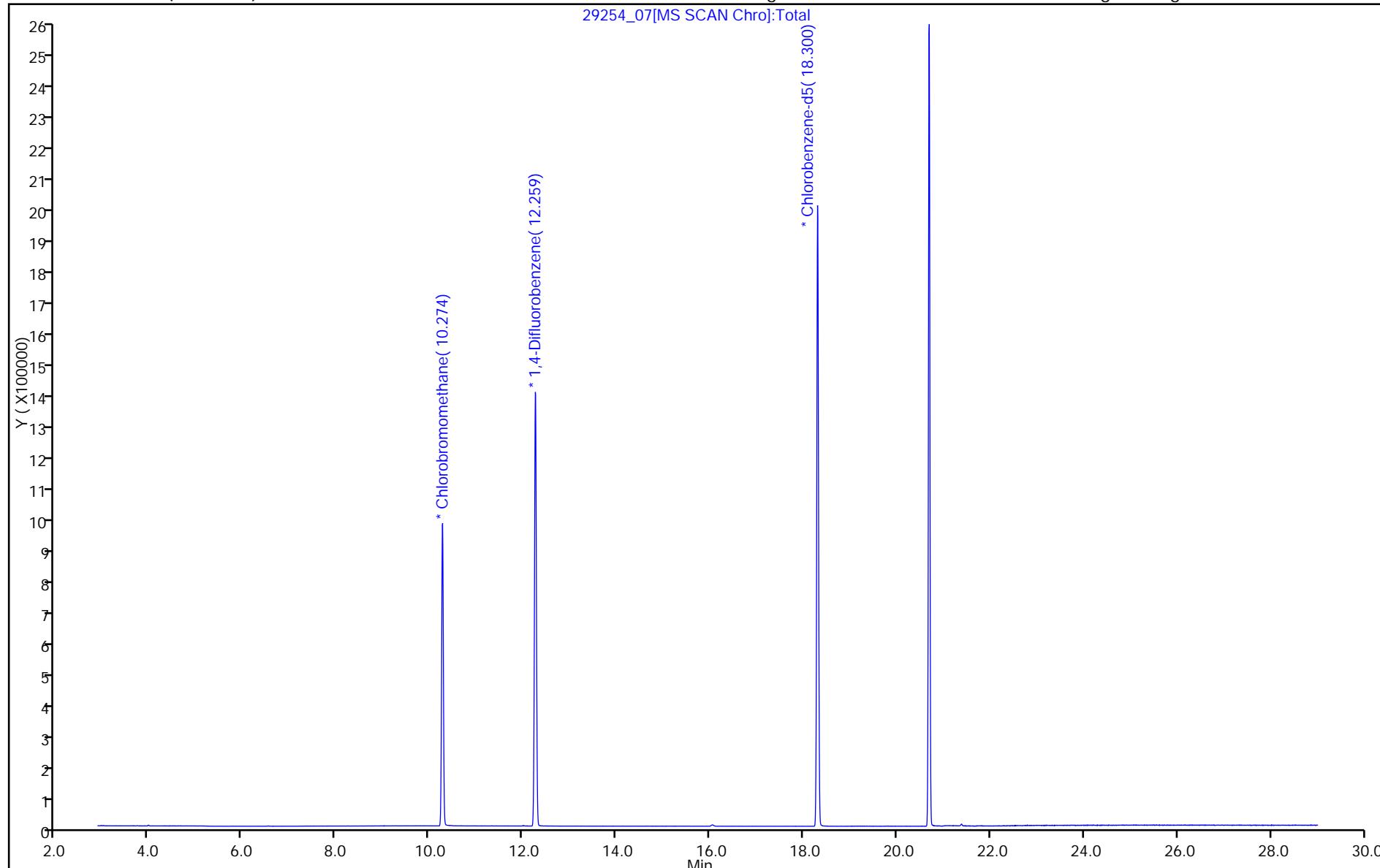
Report Date: 21-Feb-2018 13:58:37

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington
Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180220-29254.b\\29254_07.D
Injection Date: 20-Feb-2018 15:06:30 Instrument ID: CHC.i
Lims ID: 200-42287-A-6 Lab Sample ID: 200-42287-6
Client ID: 3654
Purge Vol: 200.000 mL Dil. Factor: 0.2000
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Operator ID: pad
Worklist Smp#: 7
ALS Bottle#: 7

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

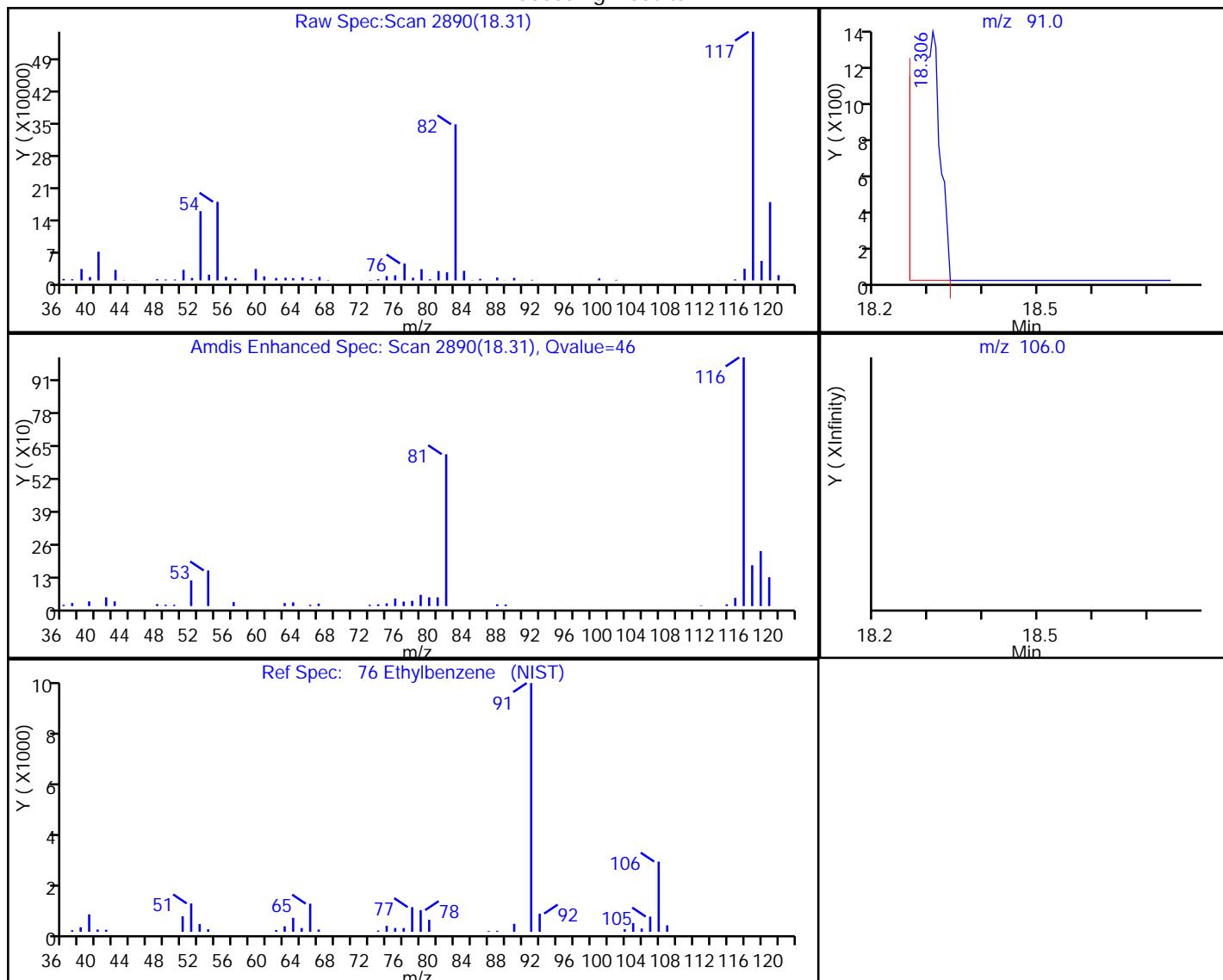


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180220-29254.b\\29254_07.D
 Injection Date: 20-Feb-2018 15:06:30 Instrument ID: CHC.i
 Lims ID: 200-42287-A-6 Lab Sample ID: 200-42287-6
 Client ID: 3654
 Operator ID: pad ALS Bottle#: 7 Worklist Smp#: 7
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.31	91.00	3153	0.028326
18.52	106.00	0	

Reviewer: puangmaleek, 21-Feb-2018 13:58:36

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42301-1

SDG No.: _____

Client Sample ID: 3350

Lab Sample ID: 200-42301-2

Matrix: Air

Lab File ID: 29254_09.D

Analysis Method: TO-15

Date Collected: 02/19/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/20/2018 17:04

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126552

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42301-1

SDG No.: _____

Client Sample ID: 3350

Lab Sample ID: 200-42301-2

Matrix: Air

Lab File ID: 29254_09.D

Analysis Method: TO-15

Date Collected: 02/19/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/20/2018 17:04

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126552

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington Job No.: 200-42301-1
 SDG No.: _____
 Client Sample ID: 3350 Lab Sample ID: 200-42301-2
 Matrix: Air Lab File ID: 29254_09.D
 Analysis Method: TO-15 Date Collected: 02/19/2018 00:00
 Sample wt/vol: 1000 (mL) Date Analyzed: 02/20/2018 17:04
 Soil Aliquot Vol: _____ Dilution Factor: 0.2
 Soil Extract Vol.: _____ GC Column: RTX-624 ID: 0.32 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 126552 Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHC.i\20180220-29254.b\29254_09.D		
Lims ID:	200-42301-A-2		
Client ID:	3350		
Sample Type:	Client		
Inject. Date:	20-Feb-2018 17:04:30	ALS Bottle#:	9
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029254-009		
Operator ID:	pad	Instrument ID:	CHC.i
Method:	\ChromNA\Burlington\ChromData\CHC.i\20180220-29254.b\TO15_MasterMethod_(v1)_CHC.i.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	21-Feb-2018 14:04:18	Calib Date:	26-Jan-2018 01:35:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHC.i\20180125-28916.b\28916_12.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK018		

First Level Reviewer: puangmaleek

Date:

21-Feb-2018 14:04:17

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	2.973					ND	
2 Dichlorodifluoromethane	85	3.037					ND	
3 Chlorodifluoromethane	51	3.090					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.298					ND	
5 Chloromethane	50	3.432	3.430	0.000	95	796	0.0340	
6 Butane	43	3.629					ND	
7 Vinyl chloride	62	3.672					ND	
8 Butadiene	54	3.746					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.659					ND	
13 Vinyl bromide	106	5.049					ND	
14 Trichlorofluoromethane	101	5.161					ND	
17 Ethanol	45	5.742					ND	
20 1,1,2-Trichloro-1,2,2-trif	101	6.255					ND	
21 1,1-Dichloroethene	96	6.281					ND	
22 Acetone	43	6.506					ND	
23 Carbon disulfide	76	6.660					ND	
24 Isopropyl alcohol	45	6.831					ND	
25 3-Chloro-1-propene	41	7.077					ND	
27 Methylene Chloride	49	7.370					ND	
28 2-Methyl-2-propanol	59	7.610					ND	
29 Methyl tert-butyl ether	73	7.786					ND	
31 trans-1,2-Dichloroethene	61	7.824					ND	
33 Hexane	57	8.224					ND	
34 1,1-Dichloroethane	63	8.694					ND	
35 Vinyl acetate	43	8.779					ND	
37 cis-1,2-Dichloroethene	96	9.814					ND	
38 2-Butanone (MEK)	72	9.852					ND	
39 Ethyl acetate	88	9.916					ND	
S 30 1,2-Dichloroethene, Total	61	10.200					ND	
* 40 Chlorobromomethane	128	10.274	10.279	-0.005	93	264267	10.0	
41 Tetrahydrofuran	42	10.279					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.423				ND	
43 Cyclohexane	84		10.668				ND	
44 1,1,1-Trichloroethane	97		10.684				ND	
45 Carbon tetrachloride	117		10.941				ND	
46 Isooctane	57		11.394				ND	
47 Benzene	78		11.400				ND	
48 1,2-Dichloroethane	62		11.586				ND	
49 n-Heptane	43		11.805				ND	
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1378083	10.0	
53 Trichloroethene	95		12.734				ND	
54 1,2-Dichloropropane	63		13.278				ND	
55 Methyl methacrylate	69		13.470				ND	
56 1,4-Dioxane	88		13.518				ND	
57 Dibromomethane	174		13.545				ND	
58 Dichlorobromomethane	83		13.855				ND	
60 cis-1,3-Dichloropropene	75		14.804				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.087				ND	
65 Toluene	92		15.397				ND	
66 trans-1,3-Dichloropropene	75		16.005				ND	
67 1,1,2-Trichloroethane	83		16.374				ND	
68 Tetrachloroethene	166		16.491				ND	
69 2-Hexanone	43		16.822				ND	
71 Chlorodibromomethane	129		17.137				ND	
72 Ethylene Dibromide	107		17.398				ND	
* 74 Chlorobenzene-d5	117	18.306	18.305	0.001	93	1369956	10.0	
75 Chlorobenzene	112		18.364				ND	
76 Ethylbenzene	91		18.519				ND	U
78 m-Xylene & p-Xylene	106		18.770				ND	
79 o-Xylene	106		19.608				ND	
80 Styrene	104		19.661				ND	
81 Bromoform	173		20.093				ND	
S 73 Xylenes, Total	106		20.100				ND	
82 Isopropylbenzene	105		20.312				ND	
84 1,1,2,2-Tetrachloroethane	83		20.979				ND	
85 N-Propylbenzene	91		21.054				ND	
88 4-Ethyltoluene	105		21.246				ND	
89 2-Chlorotoluene	91		21.251				ND	
90 1,3,5-Trimethylbenzene	105		21.353				ND	
92 tert-Butylbenzene	119		21.849				ND	
93 1,2,4-Trimethylbenzene	105		21.945				ND	
94 sec-Butylbenzene	105		22.180				ND	
95 4-Isopropyltoluene	119		22.383				ND	
96 1,3-Dichlorobenzene	146		22.410				ND	
97 1,4-Dichlorobenzene	146		22.548				ND	
98 Benzyl chloride	91		22.740				ND	
100 n-Butylbenzene	91		22.954				ND	
101 1,2-Dichlorobenzene	146		23.071				ND	
103 1,2,4-Trichlorobenzene	180		25.489				ND	
104 Hexachlorobutadiene	225		25.681				ND	
105 Naphthalene	128		25.948				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 21-Feb-2018 14:04:19

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180220-29254.b\\29254_09.D

Injection Date: 20-Feb-2018 17:04:30

Instrument ID: CHC.i

Operator ID: pad

Lims ID: 200-42301-A-2

Lab Sample ID: 200-42301-2

Worklist Smp#: 9

Client ID: 3350

Purge Vol: 200.000 mL

Dil. Factor: 0.2000

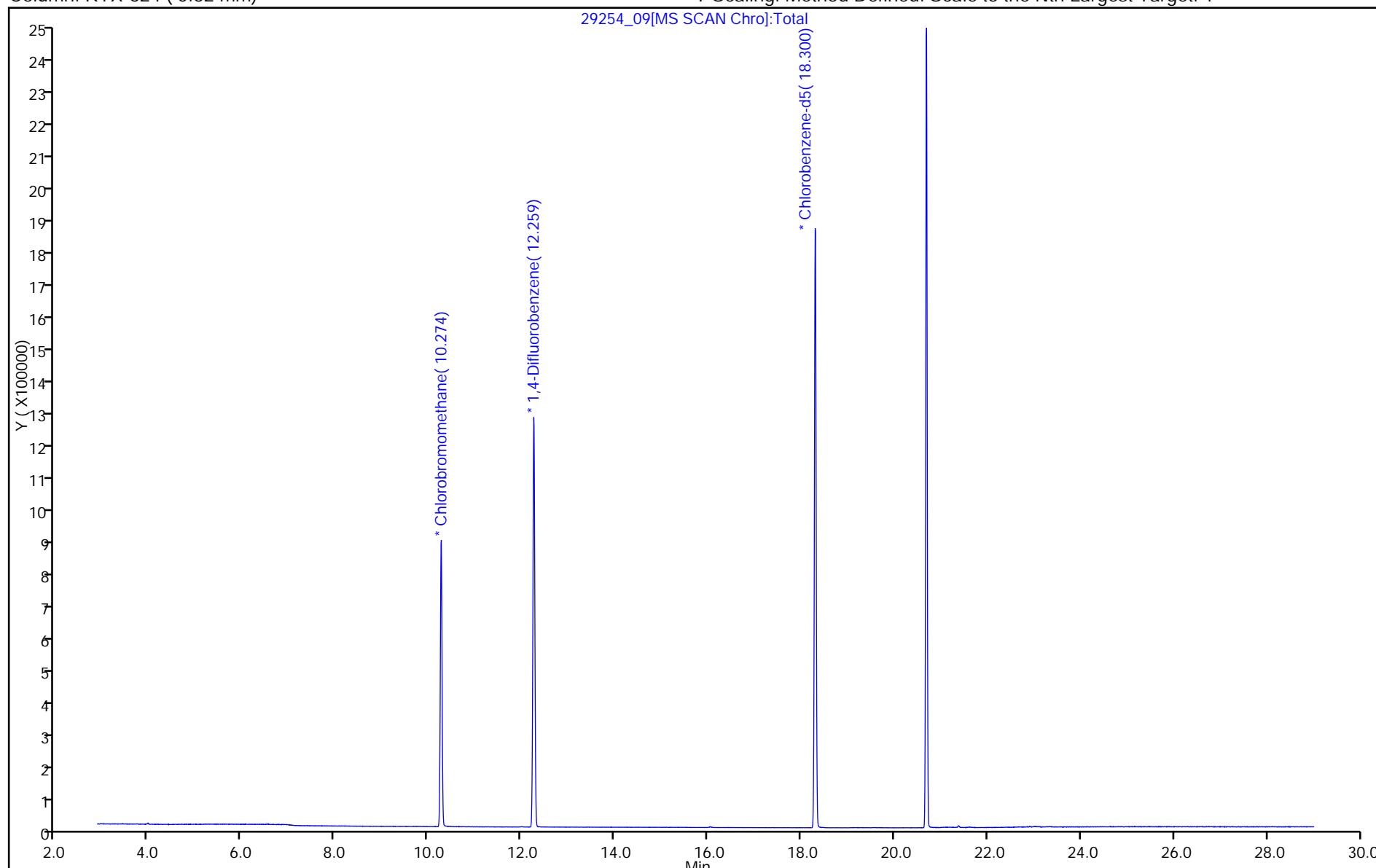
ALS Bottle#: 9

Method: TO15_MasterMethod_(v1)_CHC.i

Limit Group: AI_TO15_ICAL

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

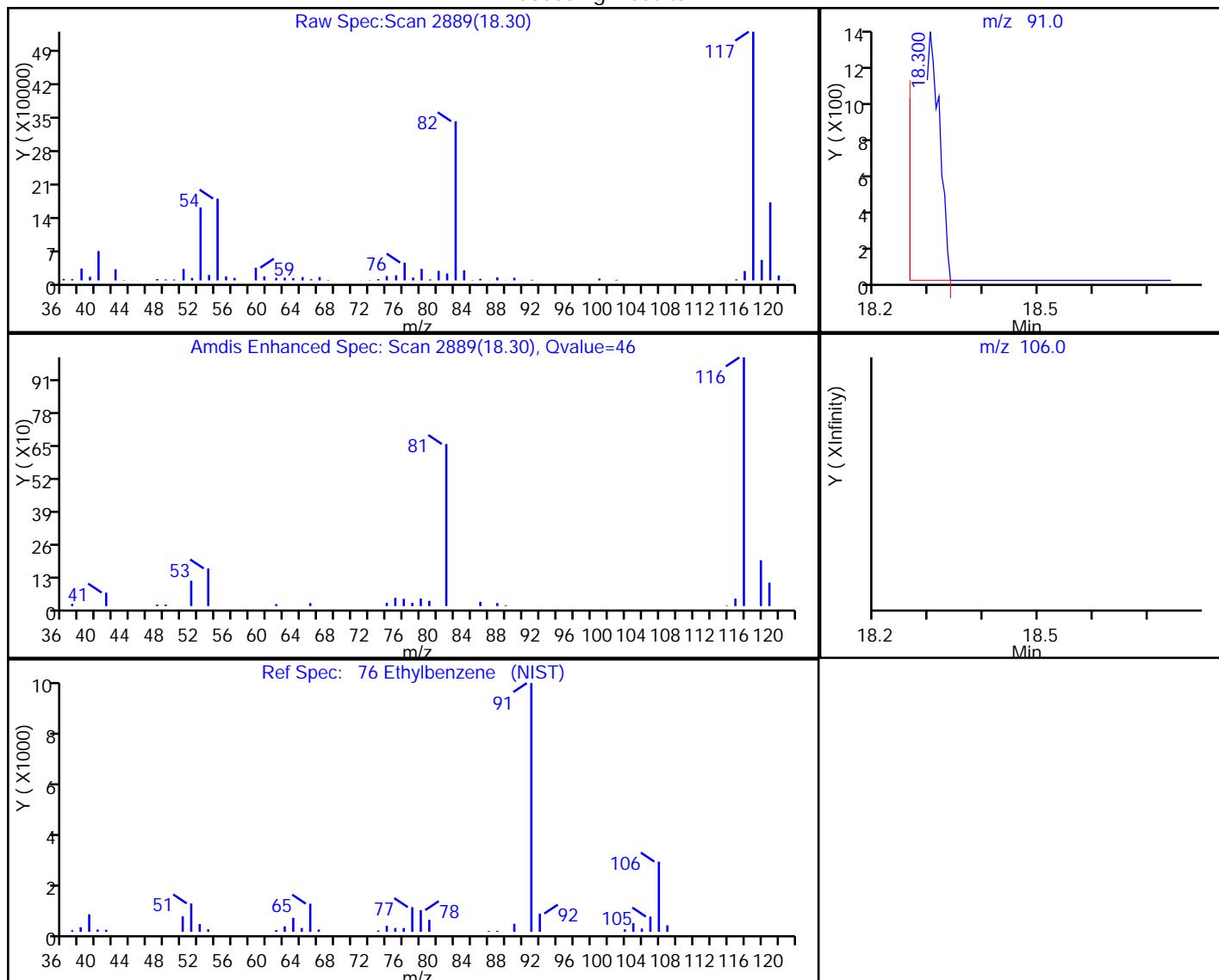


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180220-29254.b\\29254_09.D
 Injection Date: 20-Feb-2018 17:04:30 Instrument ID: CHC.i
 Lims ID: 200-42301-A-2 Lab Sample ID: 200-42301-2
 Client ID: 3350
 Operator ID: pad ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	3054	0.028921
18.52	106.00	0	

Reviewer: puangmaleek, 21-Feb-2018 14:04:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42322-1

SDG No.: _____

Client Sample ID: 2848

Lab Sample ID: 200-42322-4

Matrix: Air

Lab File ID: 29296-20.D

Analysis Method: TO-15

Date Collected: 02/21/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/23/2018 02:41

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126645

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42322-1

SDG No.: _____

Client Sample ID: 2848

Lab Sample ID: 200-42322-4

Matrix: Air

Lab File ID: 29296-20.D

Analysis Method: TO-15

Date Collected: 02/21/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/23/2018 02:41

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126645

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42322-1

SDG No.: _____

Client Sample ID: 2848

Lab Sample ID: 200-42322-4

Matrix: Air

Lab File ID: 29296-20.D

Analysis Method: TO-15

Date Collected: 02/21/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/23/2018 02:41

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126645

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Lims ID: 200-42322-A-4
 Client ID: 2848
 Sample Type: Client
 Inject. Date: 23-Feb-2018 02:41:30 ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0029296-020
 Operator ID: pad Instrument ID: CHB.i
 Method: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\TO15_LLNJ_TO3.m
 Limit Group: AI_TO15_ICAL
 Last Update: 23-Feb-2018 15:40:02 Calib Date: 13-Feb-2018 10:27:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal/External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180212-29154.b\\29154-20.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: bunmaa Date: 23-Feb-2018 15:40:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	3.140				ND	Ua	
2 Dichlorodifluoromethane	85	3.193				ND		
3 Chlorodifluoromethane	51	3.231				ND		
4 1,2-Dichloro-1,1,2,2-tetra	85	3.412				ND		
5 Chloromethane	50	3.540				ND	MUa	
6 Butane	43	3.711				ND	Ua	
7 Vinyl chloride	62	3.748				ND		
8 Butadiene	54	3.812				ND		
10 Bromomethane	94	4.474				ND		
11 Chloroethane	64	4.709				ND		
13 Vinyl bromide	106	5.115				ND		
14 Trichlorofluoromethane	101	5.216				ND		
16 Ethanol	45	5.670				ND		
19 1,1,2-Trichloro-1,2,2-trif	101	6.241				ND		
20 1,1-Dichloroethene	96	6.315				ND		
21 Acetone	43	6.459				ND	Ua	
22 Isopropyl alcohol	45	6.678				ND		
23 Carbon disulfide	76	6.742				ND	MU	
24 3-Chloro-1-propene	41	7.009				ND		
27 Methylene Chloride	49	7.271				ND	Ua	
28 2-Methyl-2-propanol	59	7.377				ND		
29 Methyl tert-butyl ether	73	7.618				ND		
30 trans-1,2-Dichloroethene	61	7.676				ND		
32 Hexane	57	8.007				ND	Ua	
33 1,1-Dichloroethane	63	8.418				ND		
34 Vinyl acetate	43	8.423				ND		
36 2-Butanone (MEK)	72	9.304				ND		
37 cis-1,2-Dichloroethene	96	9.320				ND	MUa	
35 Ethyl acetate	88	9.325				ND		
* 39 Chlorobromomethane	128	9.683	9.688	-0.005	86	424717	10.0	
38 Tetrahydrofuran	42		9.699				ND	
40 Chloroform	83		9.763				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
S 41 1,2-Dichloroethene, Total	61		10.000				ND	
42 1,1,1-Trichloroethane	97		10.019				ND	
43 Cyclohexane	84		10.035				ND	
44 Carbon tetrachloride	117		10.227				ND	
45 Isooctane	57		10.510				ND	
46 Benzene	78	10.553	10.553	0.000	93	4799	0.0313	
47 1,2-Dichloroethane	62		10.649				ND	
48 n-Heptane	43		10.761				ND	
* 50 1,4-Difluorobenzene	114	11.092	11.092	0.000	93	2093579	10.0	
53 Trichloroethene	95	11.466	11.466	0.001	95	6530	0.0966	
54 1,2-Dichloropropane	63		11.828				ND	
55 Methyl methacrylate	69		11.871				ND	
56 1,4-Dioxane	88		11.956				ND	
57 Dibromomethane	174		12.020				ND	Ua
58 Dichlorobromomethane	83		12.191				ND	
60 cis-1,3-Dichloropropene	75		12.816				ND	
61 4-Methyl-2-pentanone (MIBK)	43		12.965				ND	
64 Toluene	92		13.248				ND	Ua
66 trans-1,3-Dichloropropene	75		13.611				ND	
67 1,1,2-Trichloroethane	83		13.878				ND	
68 Tetrachloroethene	166		14.022				ND	
69 2-Hexanone	43		14.139				ND	
70 Chlorodibromomethane	129		14.438				ND	
71 Ethylene Dibromide	107		14.641				ND	
* 72 Chlorobenzene-d5	117	15.201	15.201	0.000	83	1829223	10.0	
73 Chlorobenzene	112		15.244				ND	
74 Ethylbenzene	91		15.308				ND	Ua
76 m-Xylene & p-Xylene	106		15.457				ND	
78 o-Xylene	106		15.970				ND	Ua
79 Styrene	104		15.991				ND	
S 77 Xylenes, Total	106		16.000				ND	
80 Bromoform	173		16.285				ND	
81 Isopropylbenzene	105		16.381				ND	
83 1,1,2,2-Tetrachloroethane	83		16.786				ND	
84 N-Propylbenzene	91		16.861				ND	
87 4-Ethyltoluene	105		16.984				ND	
88 2-Chlorotoluene	91		17.026				ND	
89 1,3,5-Trimethylbenzene	105		17.053				ND	
91 tert-Butylbenzene	119		17.427				ND	
92 1,2,4-Trimethylbenzene	105		17.496				ND	
93 sec-Butylbenzene	105		17.683				ND	
94 4-Isopropyltoluene	119		17.838				ND	
95 1,3-Dichlorobenzene	146		17.912				ND	
96 1,4-Dichlorobenzene	146		18.024				ND	
97 Benzyl chloride	91		18.174				ND	
99 n-Butylbenzene	91		18.345				ND	
100 1,2-Dichlorobenzene	146		18.510				ND	
103 1,2,4-Trichlorobenzene	180		20.864				ND	
104 Hexachlorobutadiene	225		21.035				ND	
105 Naphthalene	128		21.344				ND	

QC Flag Legend

Review Flags

M - Manually Integrated

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15BISs_00006

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 23-Feb-2018 15:40:03

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D

Injection Date: 23-Feb-2018 02:41:30

Instrument ID: CHB.i

Operator ID: pad

Lims ID: 200-42322-A-4

Lab Sample ID: 200-42322-4

Worklist Smp#: 20

Client ID: 2848

Dil. Factor: 0.2000

ALS Bottle#: 22

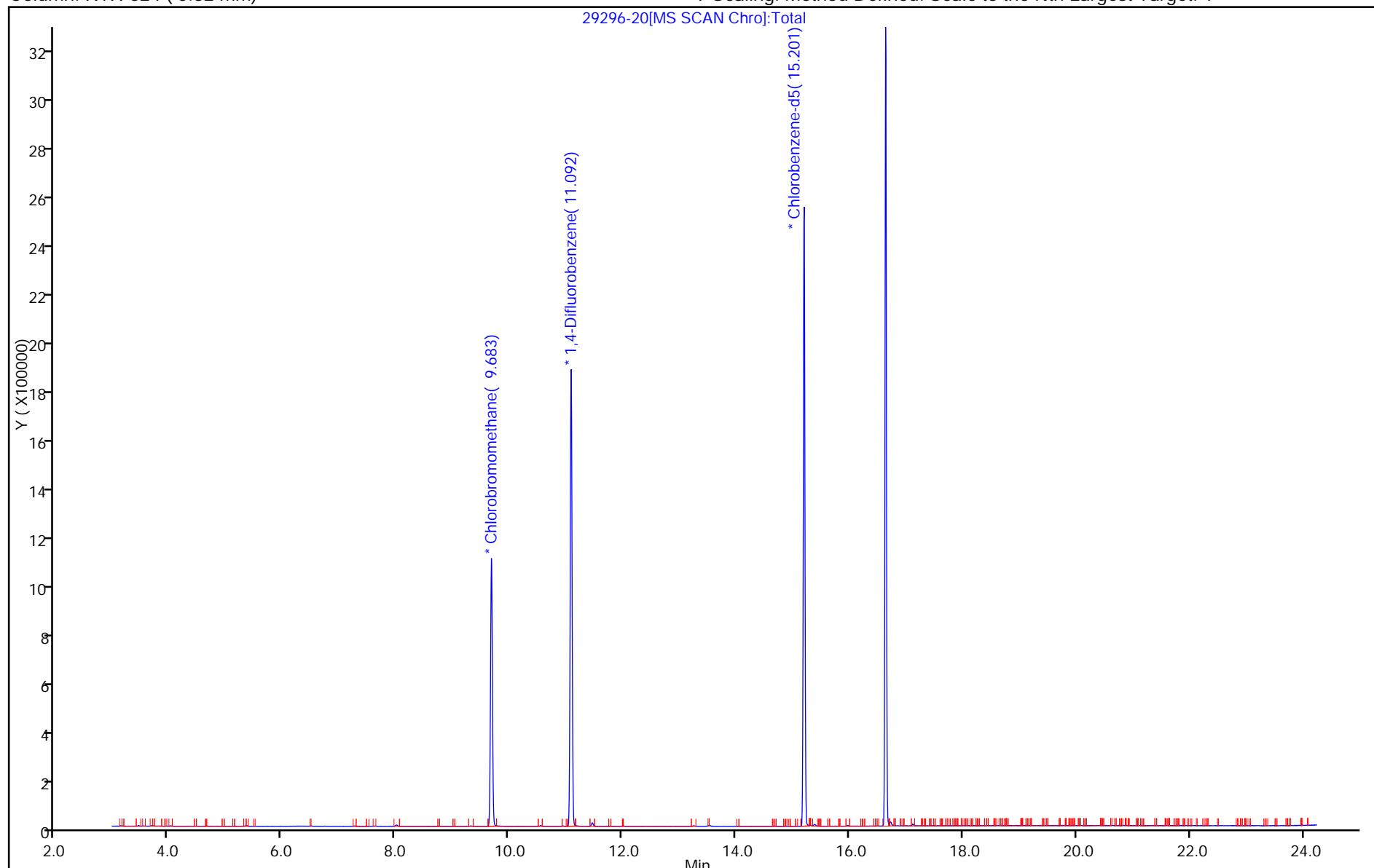
Purge Vol: 200.000 mL

Limit Group: AI_TO15_ICAL

Method: TO15_LLNJ_TO3

Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

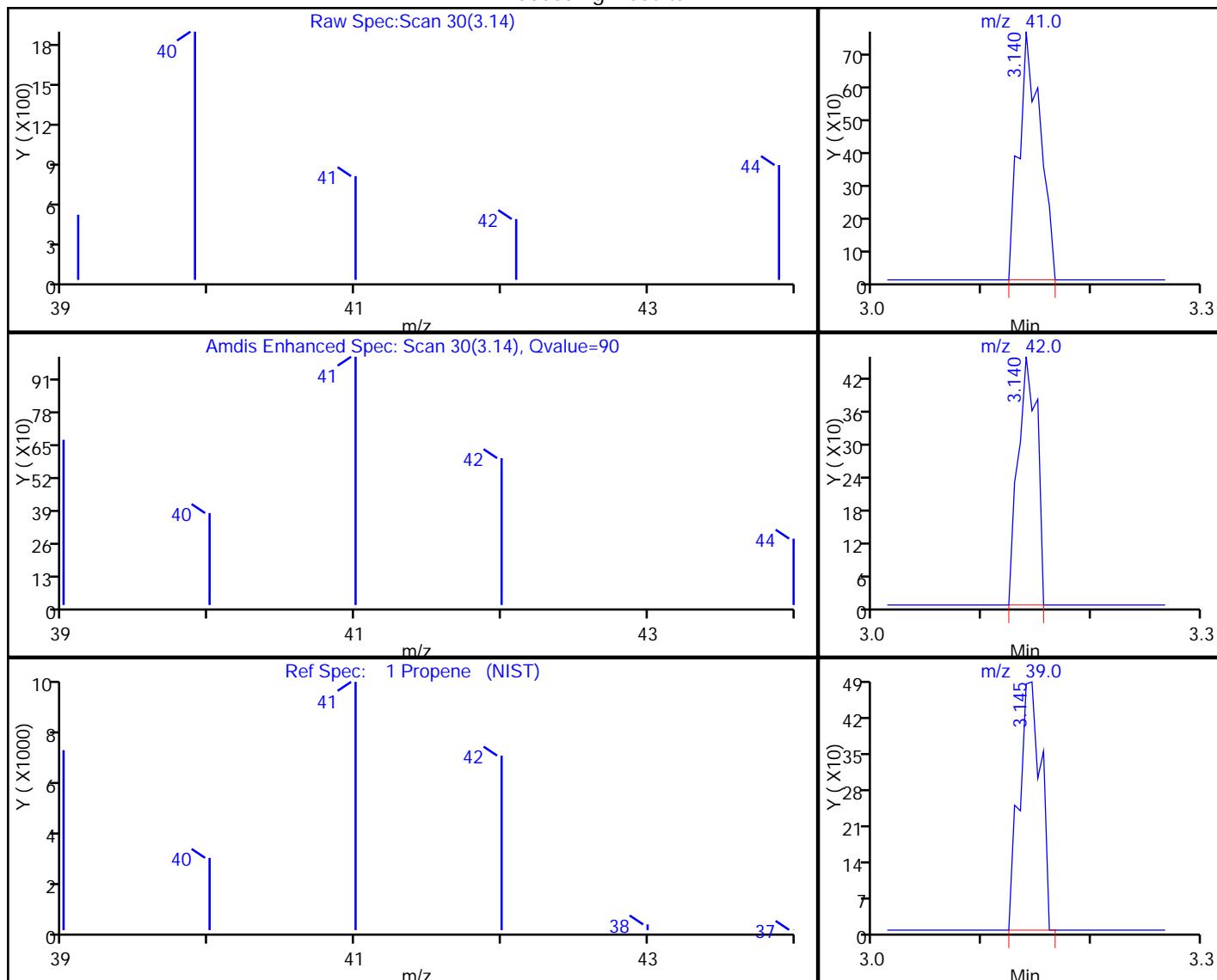


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TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

1 Propene, CAS: 115-07-1

Processing Results



RT	Mass	Response	Amount
3.14	41.00	1042	0.071807
3.14	42.00	544	
3.15	39.00	672	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

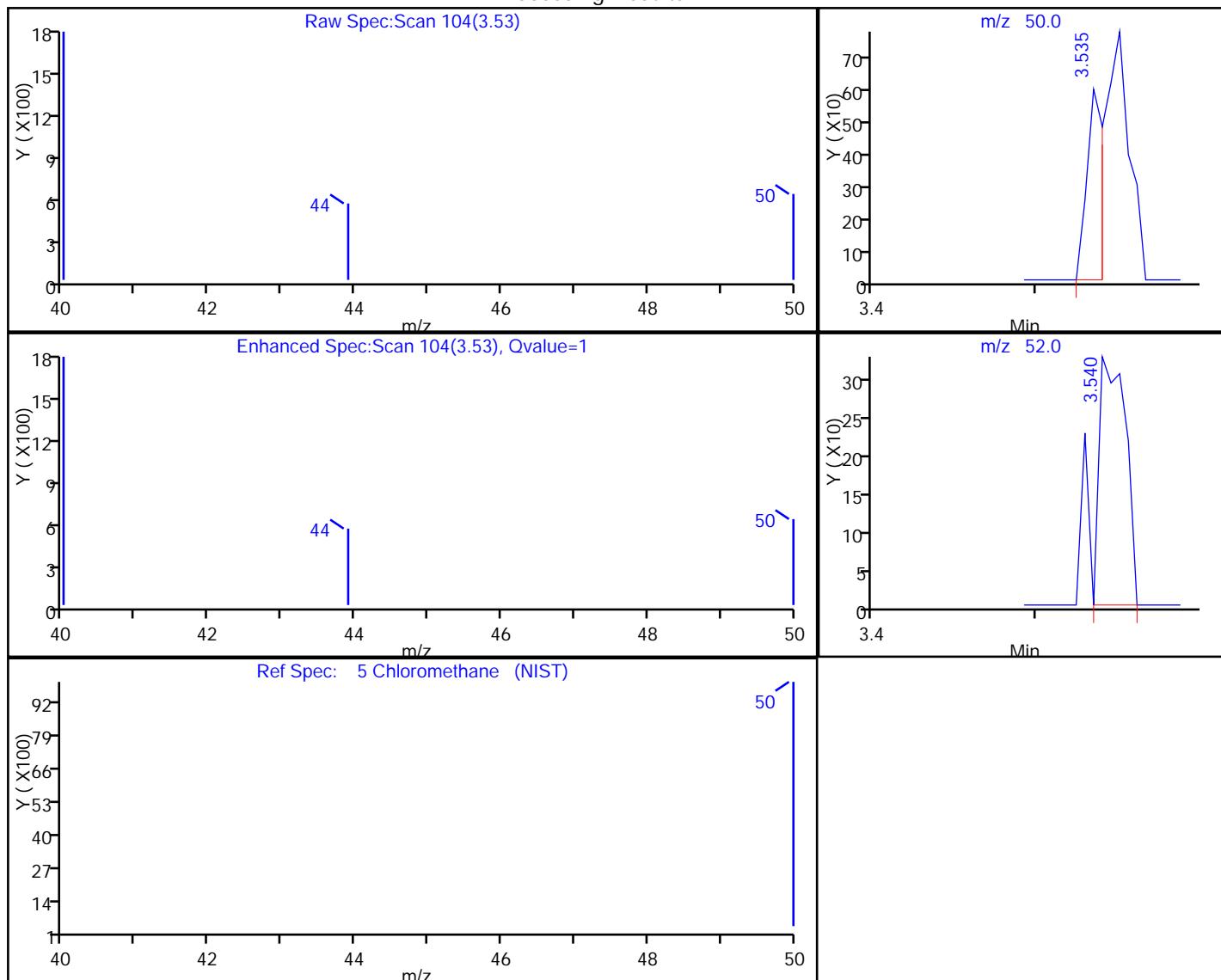
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

5 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
3.53	50.00	423	0.017901
3.54	52.00	360	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

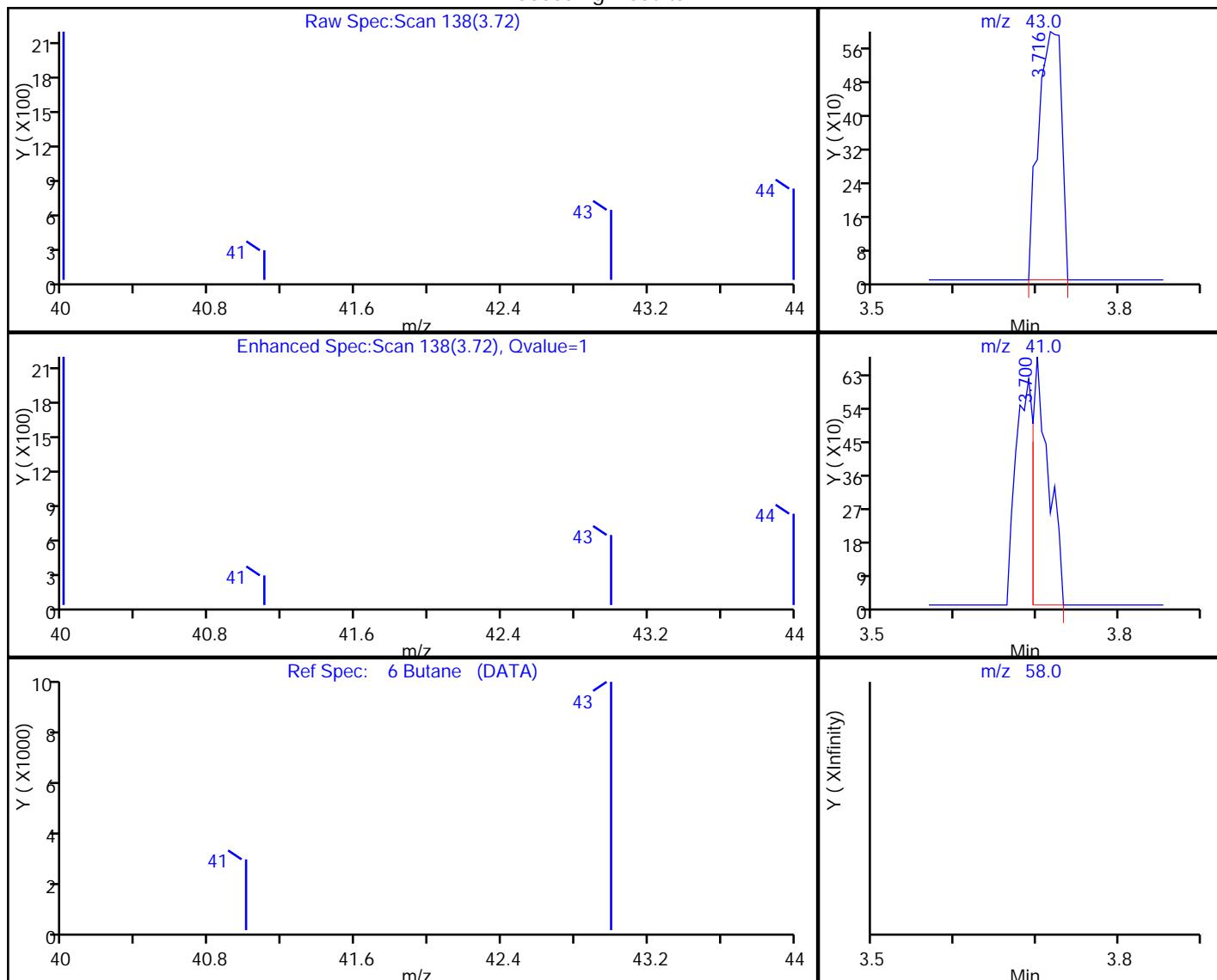
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

6 Butane, CAS: 106-97-8

Processing Results



RT	Mass	Response	Amount
3.72	43.00	1166	0.031648
3.70	41.00	918	
3.72	58.00	0	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

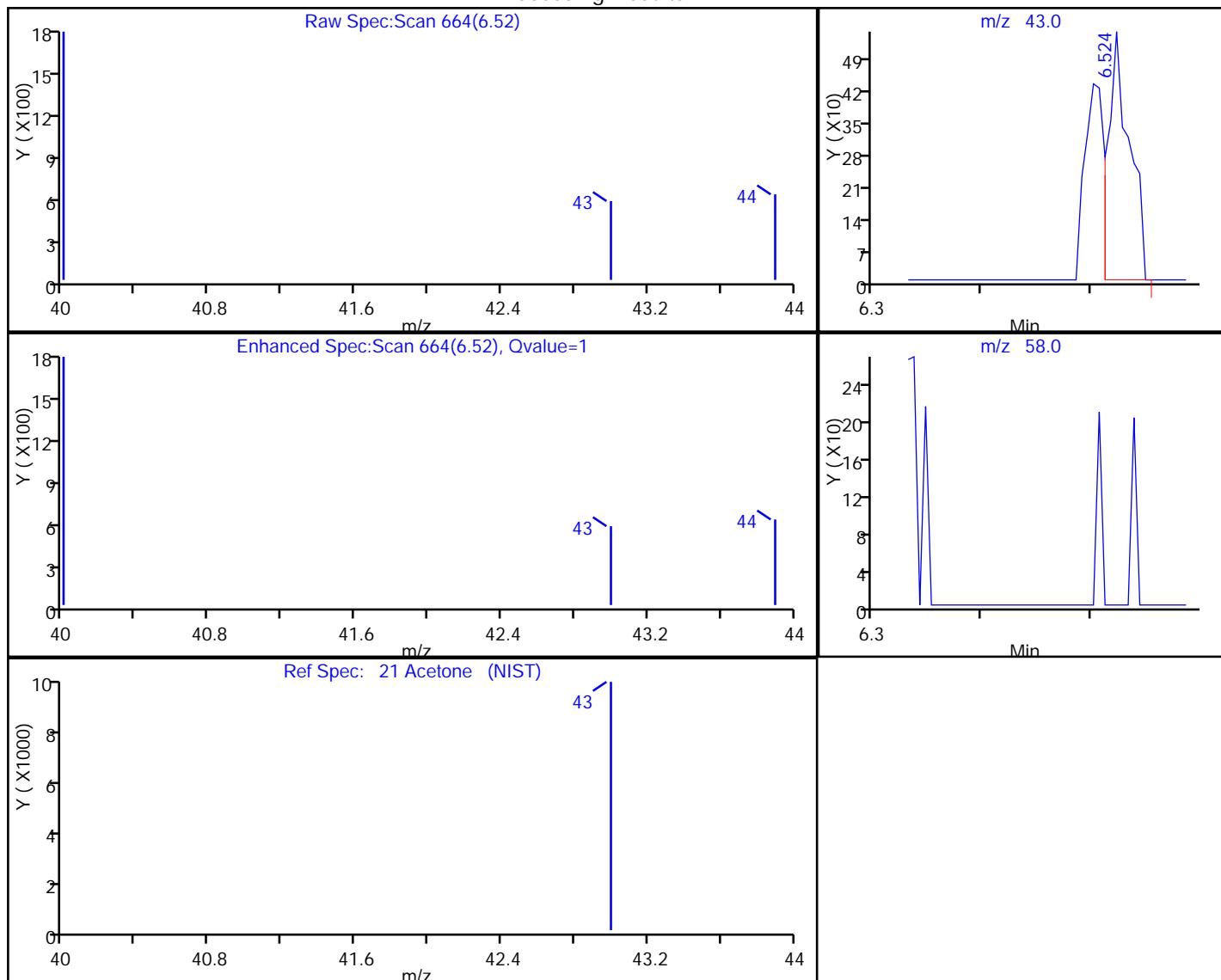
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

21 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
6.52	43.00	733	0.016671
6.52	58.00	0	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

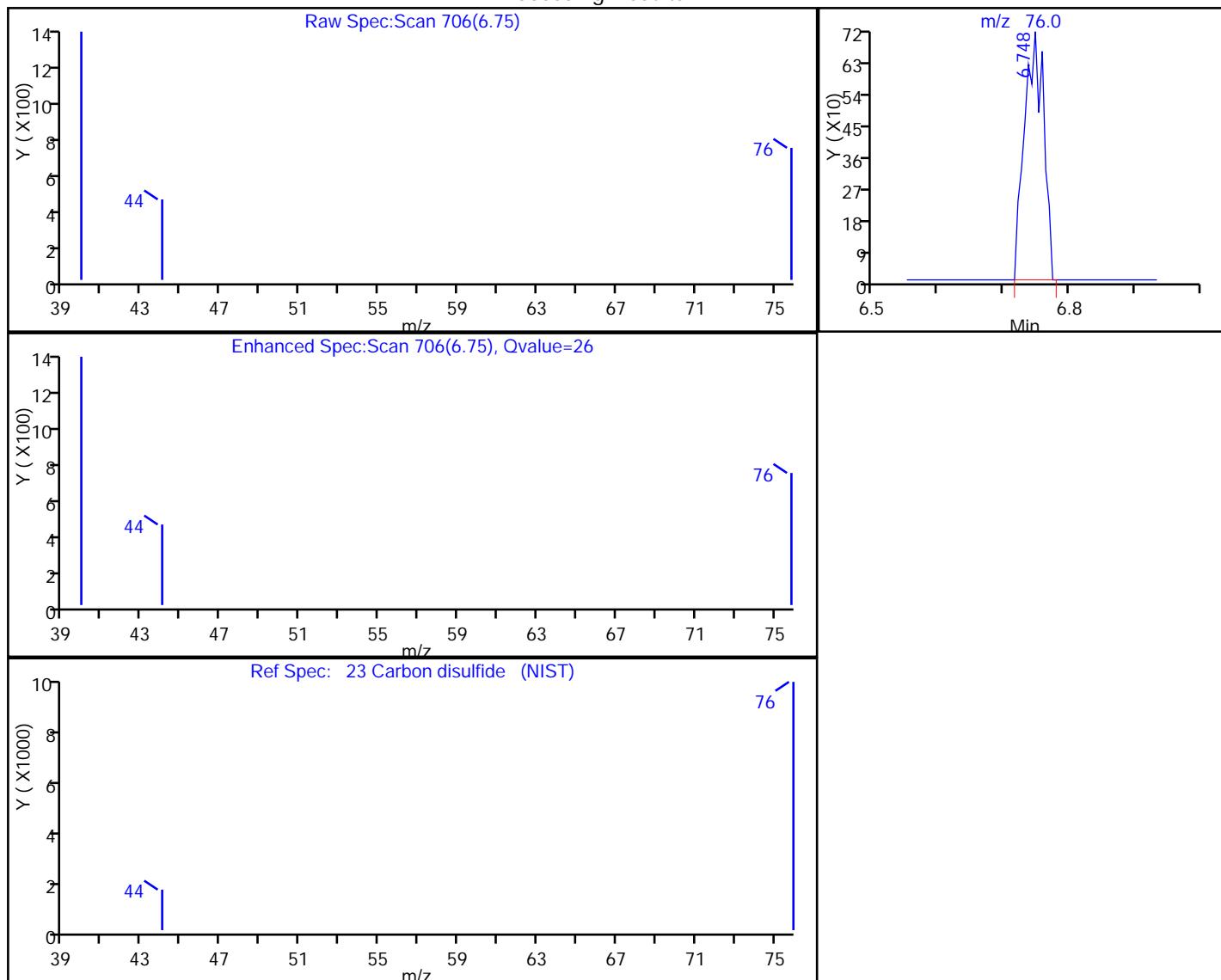
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

23 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
6.75	76.00	1466	0.012955

Reviewer: bunmaa, 23-Feb-2018 15:40:02

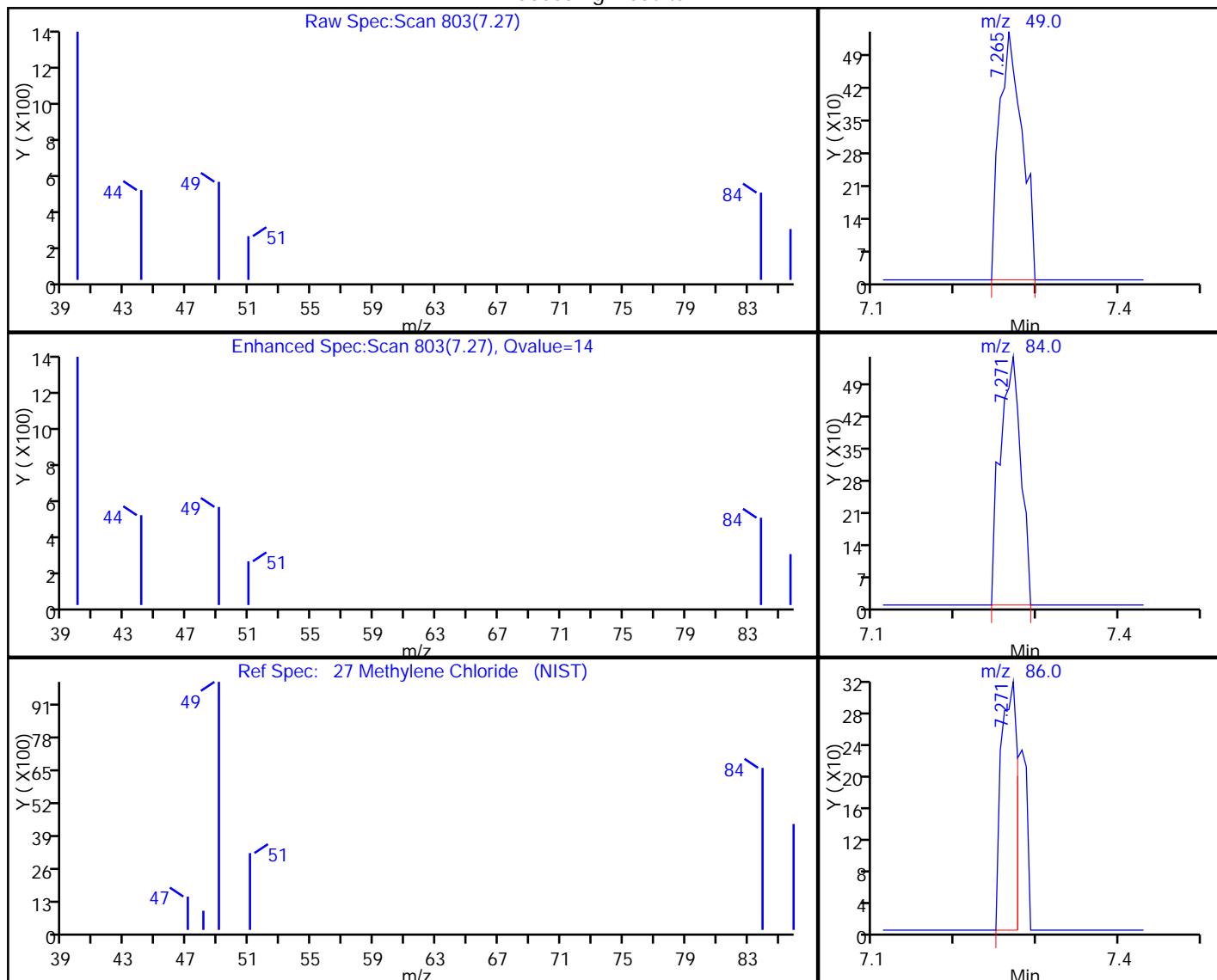
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

27 Methylene Chloride, CAS: 75-09-2

Processing Results



RT	Mass	Response	Amount
7.27	49.00	1029	0.027413
7.27	84.00	955	
7.27	86.00	420	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

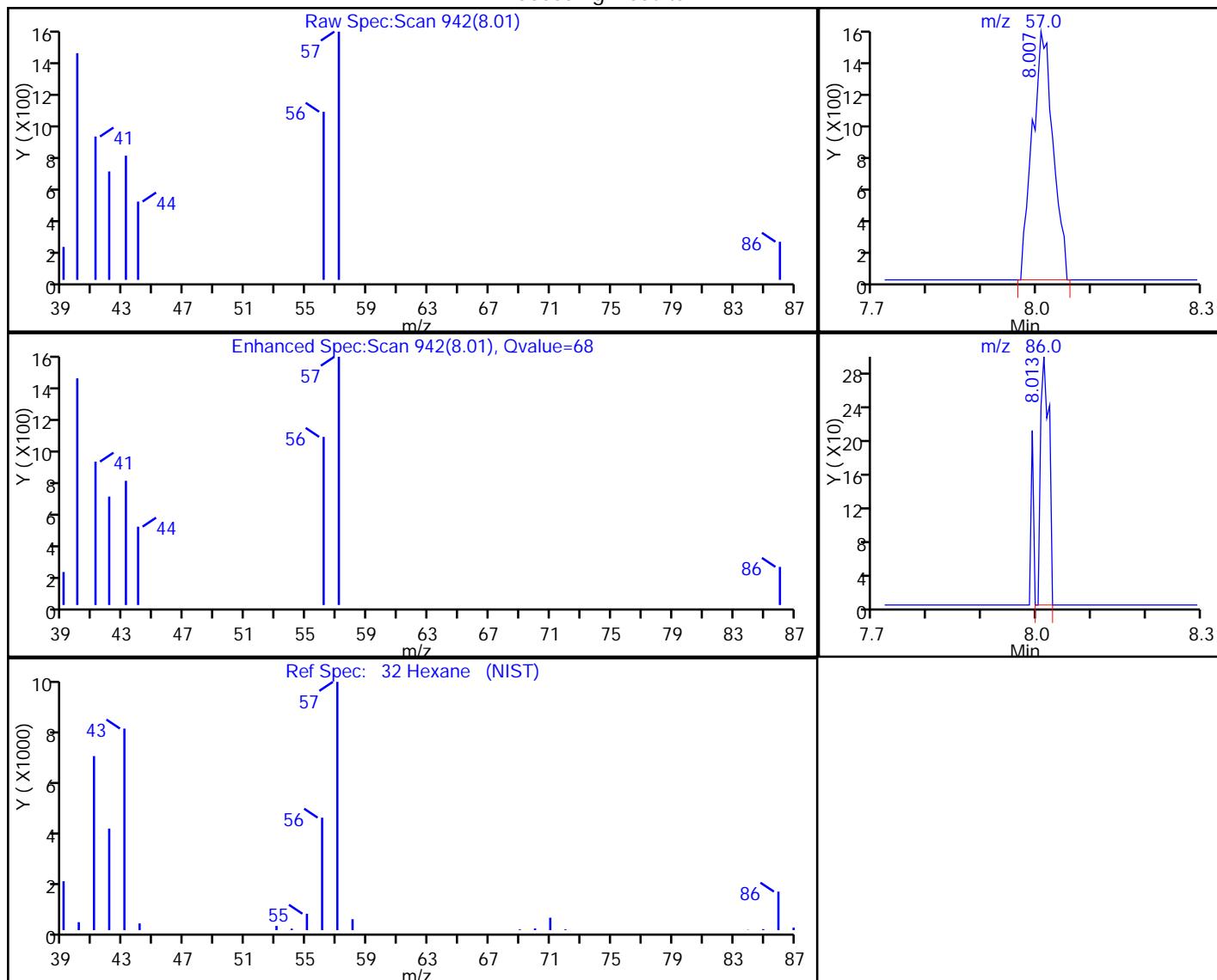
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

32 Hexane, CAS: 110-54-3

Processing Results



RT	Mass	Response	Amount
8.01	57.00	4089	0.062262
8.01	86.00	318	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

Audit Action: Marked Compound Undetected

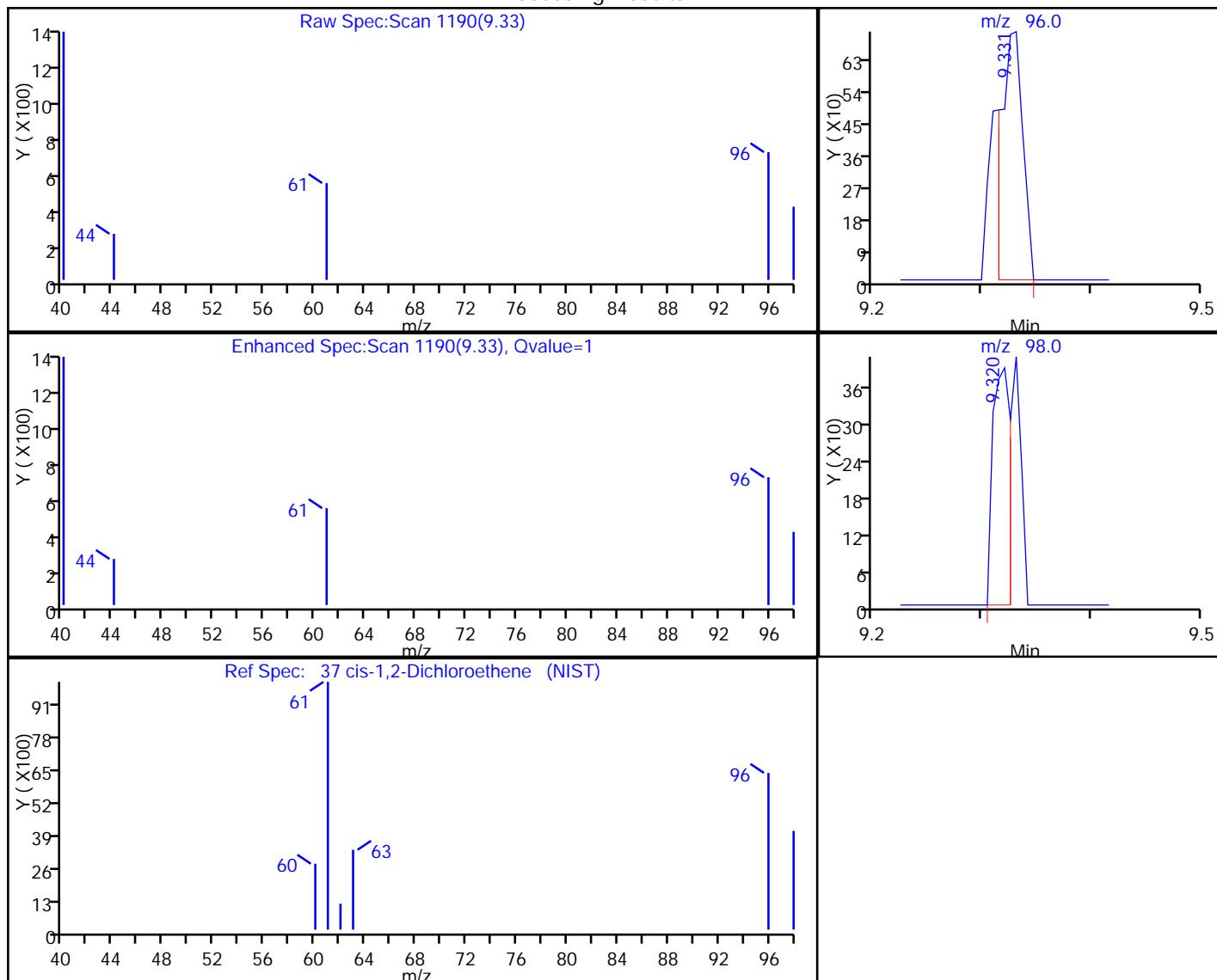
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

37 cis-1,2-Dichloroethene, CAS: 156-59-2

Processing Results



RT	Mass	Response	Amount
9.33	96.00	975	0.018676
9.32	98.00	440	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

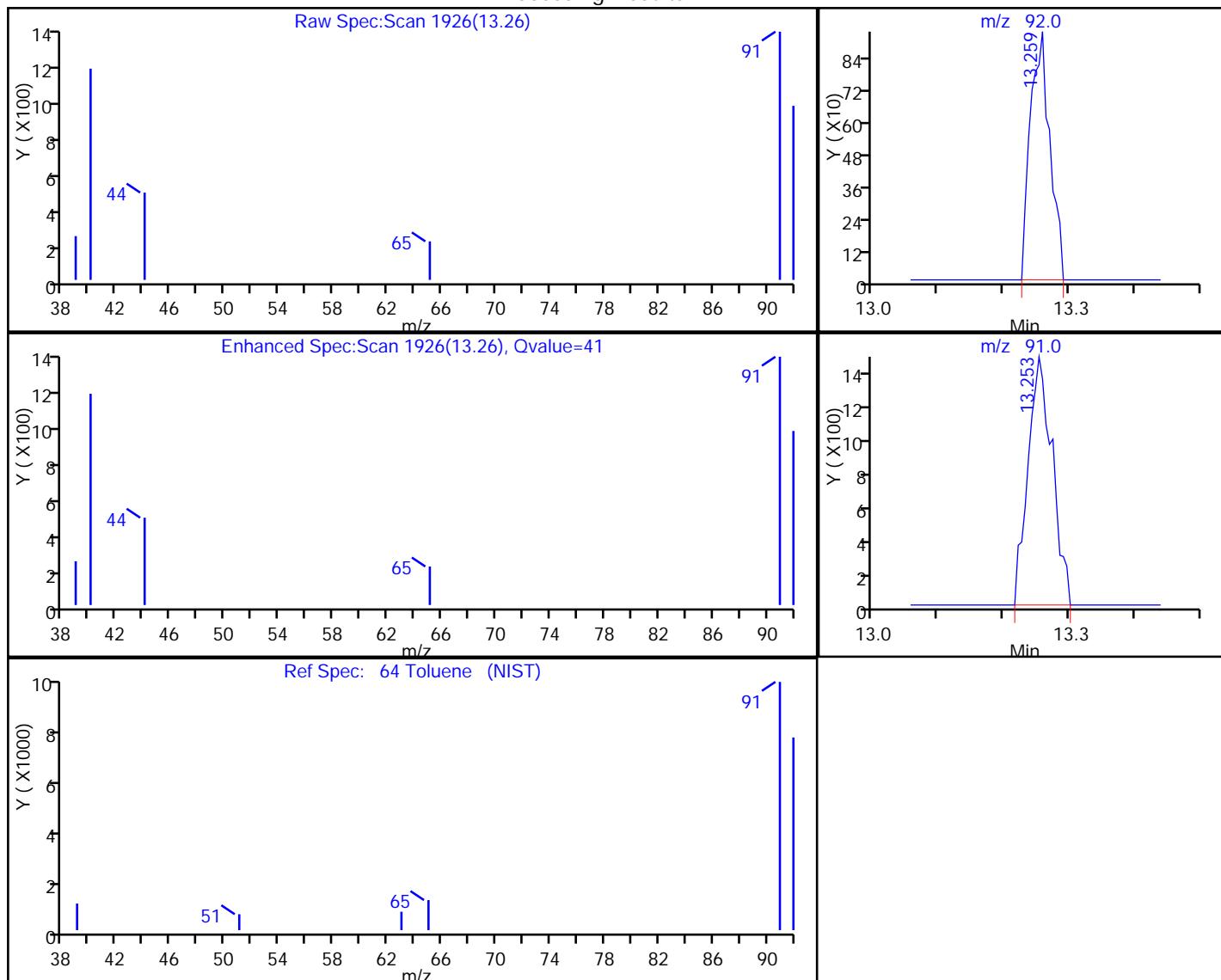
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

64 Toluene, CAS: 108-88-3

Processing Results



RT	Mass	Response	Amount
13.26	92.00	1939	0.016945
13.25	91.00	3762	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

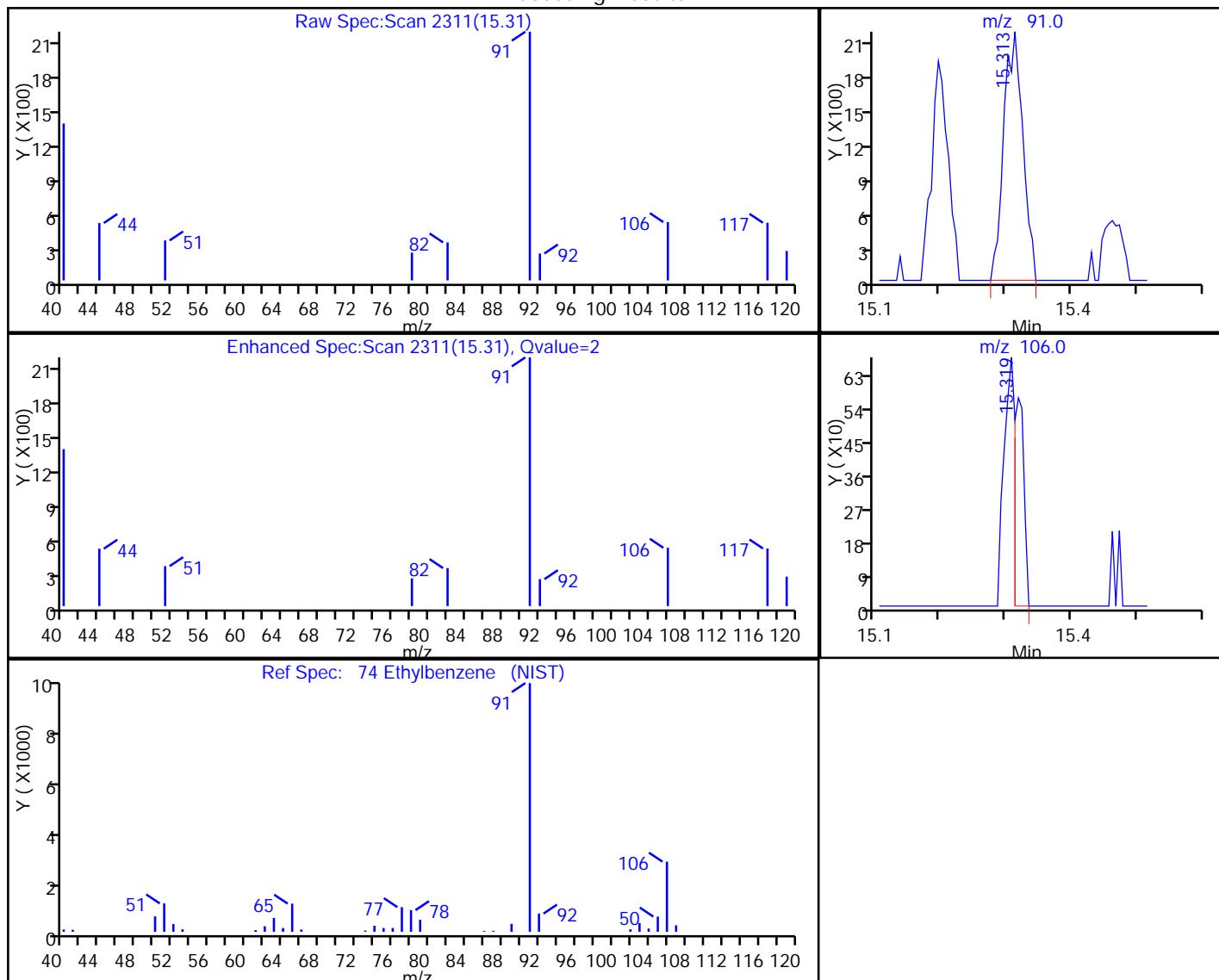
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNJ_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

74 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
15.31	91.00	4380	0.017790
15.32	106.00	588	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

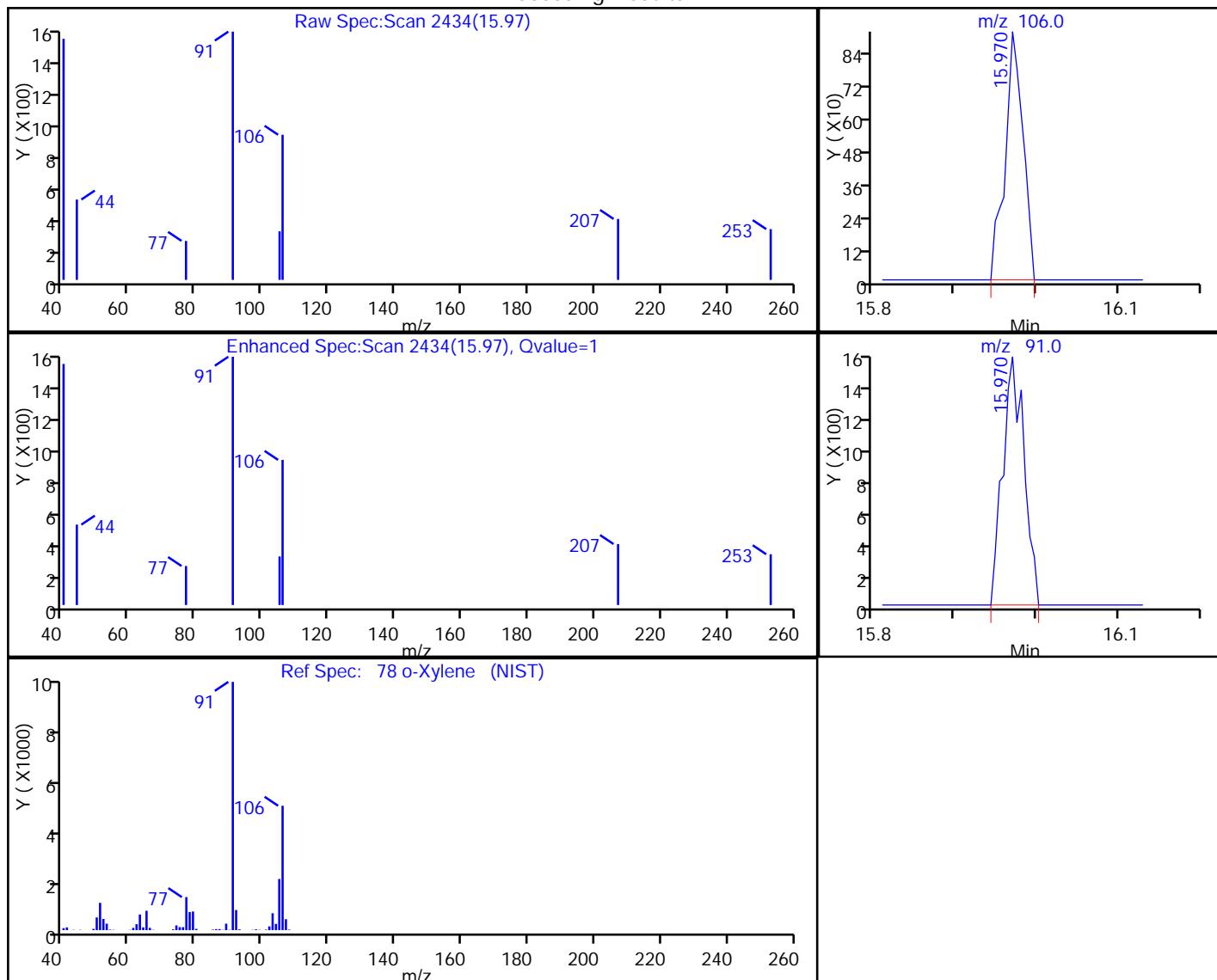
Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

TestAmerica Burlington
 Data File: \\ChromNA\\Burlington\\ChromData\\CHB.i\\20180222-29296.b\\29296-20.D
 Injection Date: 23-Feb-2018 02:41:30 Instrument ID: CHB.i
 Lims ID: 200-42322-A-4 Lab Sample ID: 200-42322-4
 Client ID: 2848
 Operator ID: pad ALS Bottle#: 22 Worklist Smp#: 20
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_LLNU_TO3 Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

78 o-Xylene, CAS: 95-47-6

Processing Results



RT	Mass	Response	Amount
15.97	106.00	1390	0.013665
15.97	91.00	2827	

Reviewer: bunmaa, 23-Feb-2018 15:40:02

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42375-1

SDG No.: _____

Client Sample ID: 4357

Lab Sample ID: 200-42375-1

Matrix: Air

Lab File ID: 29367_09.D

Analysis Method: TO-15

Date Collected: 02/26/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/27/2018 18:48

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126805

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42375-1

SDG No.: _____

Client Sample ID: 4357

Lab Sample ID: 200-42375-1

Matrix: Air

Lab File ID: 29367_09.D

Analysis Method: TO-15

Date Collected: 02/26/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/27/2018 18:48

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126805

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42375-1

SDG No.: _____

Client Sample ID: 4357

Lab Sample ID: 200-42375-1

Matrix: Air

Lab File ID: 29367_09.D

Analysis Method: TO-15

Date Collected: 02/26/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 02/27/2018 18:48

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126805

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\29367_09.D
 Lims ID: 200-42375-A-1
 Client ID: 4357
 Sample Type: Client
 Inject. Date: 27-Feb-2018 18:48:30 ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Sample Info: 200-0029367-009
 Operator ID: pad Instrument ID: CHC.i
 Method: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\TO15_MasterMethod_(v1)_CHC.i.m
 Limit Group: AI_TO15_ICAL
 Last Update: 28-Feb-2018 11:03:42 Calib Date: 26-Jan-2018 01:35:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180125-28916.b\\28916_12.D
 Column 1 : RTX-624 (0.32 mm) Det: MS SCAN
 Process Host: XAWRK016

First Level Reviewer: puangmaleek Date: 28-Feb-2018 11:03:42

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
1 Propene	41	2.967	2.967	0.000	96	2568	0.1342	
2 Dichlorodifluoromethane	85		3.037				ND	
3 Chlorodifluoromethane	51		3.085				ND	
4 1,2-Dichloro-1,1,2,2-tetra	85		3.298				ND	
5 Chloromethane	50	3.421	3.426	-0.005	99	2713	0.1384	
6 Butane	43		3.629				ND	
7 Vinyl chloride	62		3.667				ND	
8 Butadiene	54		3.747				ND	
10 Bromomethane	94		4.414				ND	
11 Chloroethane	64		4.654				ND	
13 Vinyl bromide	106		5.044				ND	
14 Trichlorofluoromethane	101		5.156				ND	
17 Ethanol	45	5.764	5.737	0.027	87	1032	0.1252	
20 1,1,2-Trichloro-1,2,2-trif	101		6.250				ND	
21 1,1-Dichloroethene	96		6.276				ND	
22 Acetone	43	6.532	6.532	0.026	57	3214	0.0964	7a
23 Carbon disulfide	76		6.655				ND	
24 Isopropyl alcohol	45	6.863	6.826	0.037	96	2875	0.0798	
25 3-Chloro-1-propene	41		7.072				ND	
27 Methylene Chloride	49		7.370				ND	
28 2-Methyl-2-propanol	59		7.605				ND	
29 Methyl tert-butyl ether	73		7.781				ND	
31 trans-1,2-Dichloroethene	61		7.819				ND	
33 Hexane	57		8.224				ND	
34 1,1-Dichloroethane	63		8.694				ND	
35 Vinyl acetate	43		8.779				ND	
37 cis-1,2-Dichloroethene	96		9.815				ND	
38 2-Butanone (MEK)	72		9.847				ND	
39 Ethyl acetate	88		9.911				ND	
S 30 1,2-Dichloroethene, Total	61		10.200				ND	
* 40 Chlorobromomethane	128	10.268	10.274	-0.006	92	221371	10.0	
41 Tetrahydrofuran	42		10.274				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83	10.418				ND		
43 Cyclohexane	84	10.669				ND		
44 1,1,1-Trichloroethane	97	10.685				ND		
45 Carbon tetrachloride	117	10.946				ND		
46 Isooctane	57	11.394				ND		
47 Benzene	78	11.400				ND		U
48 1,2-Dichloroethane	62	11.581				ND		
49 n-Heptane	43	11.800				ND		
* 50 1,4-Difluorobenzene	114	12.259	12.264	-0.005	98	1160194	10.0	
53 Trichloroethene	95	12.734				ND		
54 1,2-Dichloropropane	63	13.278				ND		
55 Methyl methacrylate	69	13.470				ND		
56 1,4-Dioxane	88	13.513				ND		
57 Dibromomethane	174	13.540				ND		
58 Dichlorobromomethane	83	13.855				ND		
60 cis-1,3-Dichloropropene	75	14.805				ND		
61 4-Methyl-2-pentanone (MIBK)	43	15.088				ND		
65 Toluene	92	15.397				ND		
66 trans-1,3-Dichloropropene	75	16.000				ND		
67 1,1,2-Trichloroethane	83	16.374				ND		
68 Tetrachloroethene	166	16.491				ND		
69 2-Hexanone	43	16.822				ND		
71 Chlorodibromomethane	129	17.137				ND		
72 Ethylene Dibromide	107	17.393				ND		
* 74 Chlorobenzene-d5	117	18.300	18.300	0.000	94	1152977	10.0	
75 Chlorobenzene	112	18.359				ND		
76 Ethylbenzene	91	18.519				ND		U
78 m-Xylene & p-Xylene	106	18.770				ND		
79 o-Xylene	106	19.603				ND		
80 Styrene	104	19.661				ND		
81 Bromoform	173	20.088				ND		
S 73 Xylenes, Total	106	20.100				ND		
82 Isopropylbenzene	105	20.312				ND		
84 1,1,2,2-Tetrachloroethane	83	20.979				ND		
85 N-Propylbenzene	91	21.049				ND		
88 4-Ethyltoluene	105	21.246				ND		
89 2-Chlorotoluene	91	21.252				ND		
90 1,3,5-Trimethylbenzene	105	21.353				ND		
92 tert-Butylbenzene	119	21.849				ND		
93 1,2,4-Trimethylbenzene	105	21.945				ND		
94 sec-Butylbenzene	105	22.180				ND		
95 4-Isopropyltoluene	119	22.383				ND		
96 1,3-Dichlorobenzene	146	22.410				ND		
97 1,4-Dichlorobenzene	146	22.549				ND		
98 Benzyl chloride	91	22.741				ND		
100 n-Butylbenzene	91	22.954				ND		
101 1,2-Dichlorobenzene	146	23.072				ND		
103 1,2,4-Trichlorobenzene	180	25.489				ND		
104 Hexachlorobutadiene	225	25.676				ND		
105 Naphthalene	128	25.943				ND		

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

ATTO15CISs_00010

Amount Added: 20.00

Units: mL

Run Reagent

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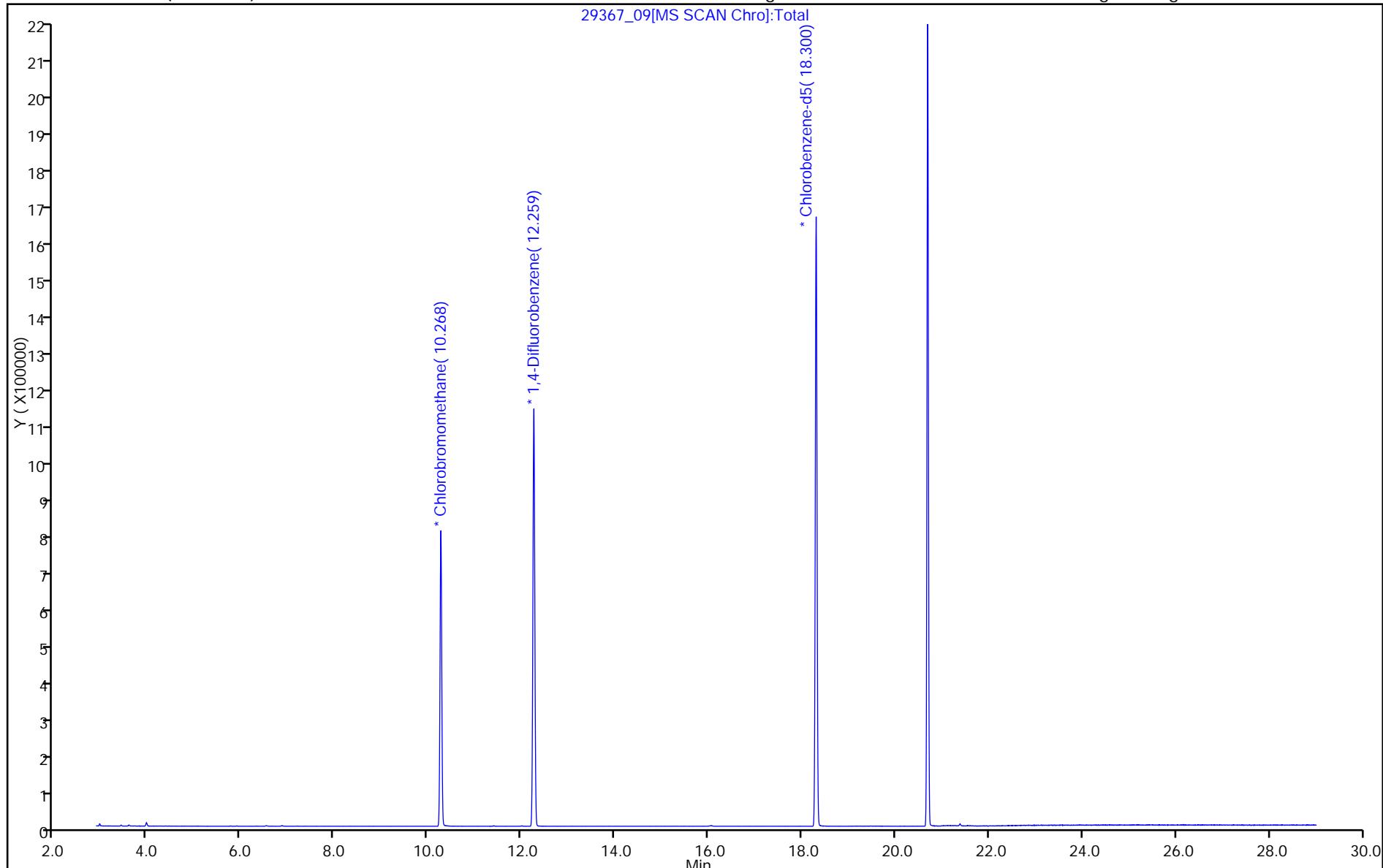
Report Date: 28-Feb-2018 11:03:43

Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\29367_09.D
Injection Date: 27-Feb-2018 18:48:30 Instrument ID: CHC.i Operator ID: pad
Lims ID: 200-42375-A-1 Lab Sample ID: 200-42375-1 Worklist Smp#: 9
Client ID: 4357
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 9
Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1



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TestAmerica Burlington

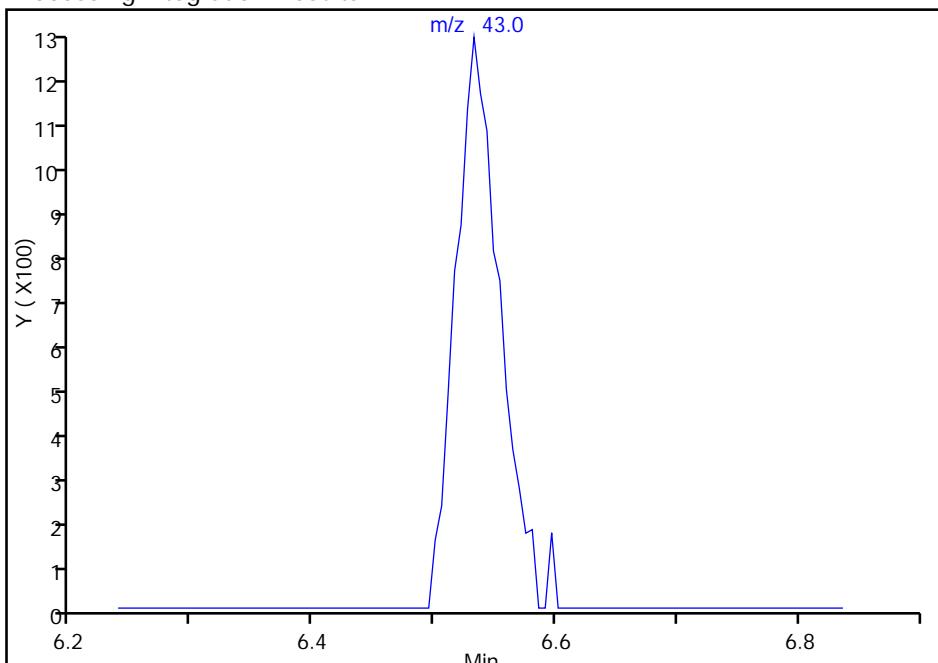
Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\29367_09.D
 Injection Date: 27-Feb-2018 18:48:30 Instrument ID: CHC.i
 Lims ID: 200-42375-A-1 Lab Sample ID: 200-42375-1
 Client ID: 4357
 Operator ID: pad ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

22 Acetone, CAS: 67-64-1

Signal: 1

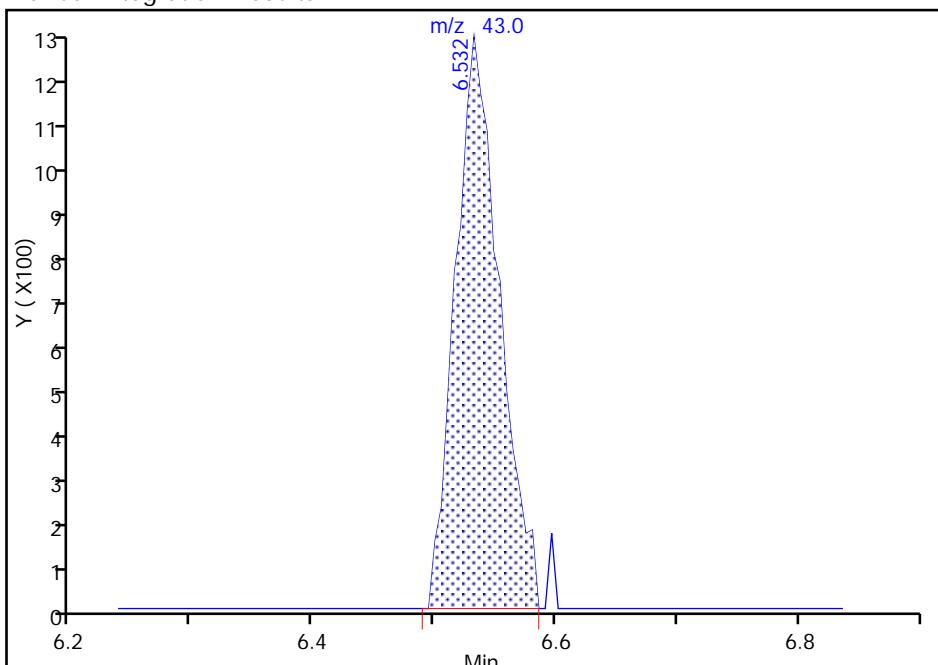
Not Detected
 Expected RT: 6.51

Processing Integration Results



RT: 6.53
 Area: 3214
 Amount: 0.096445
 Amount Units: ppb v/v

Manual Integration Results



Reviewer: puangmaleek, 28-Feb-2018 11:02:18

Audit Action: Assigned Compound ID

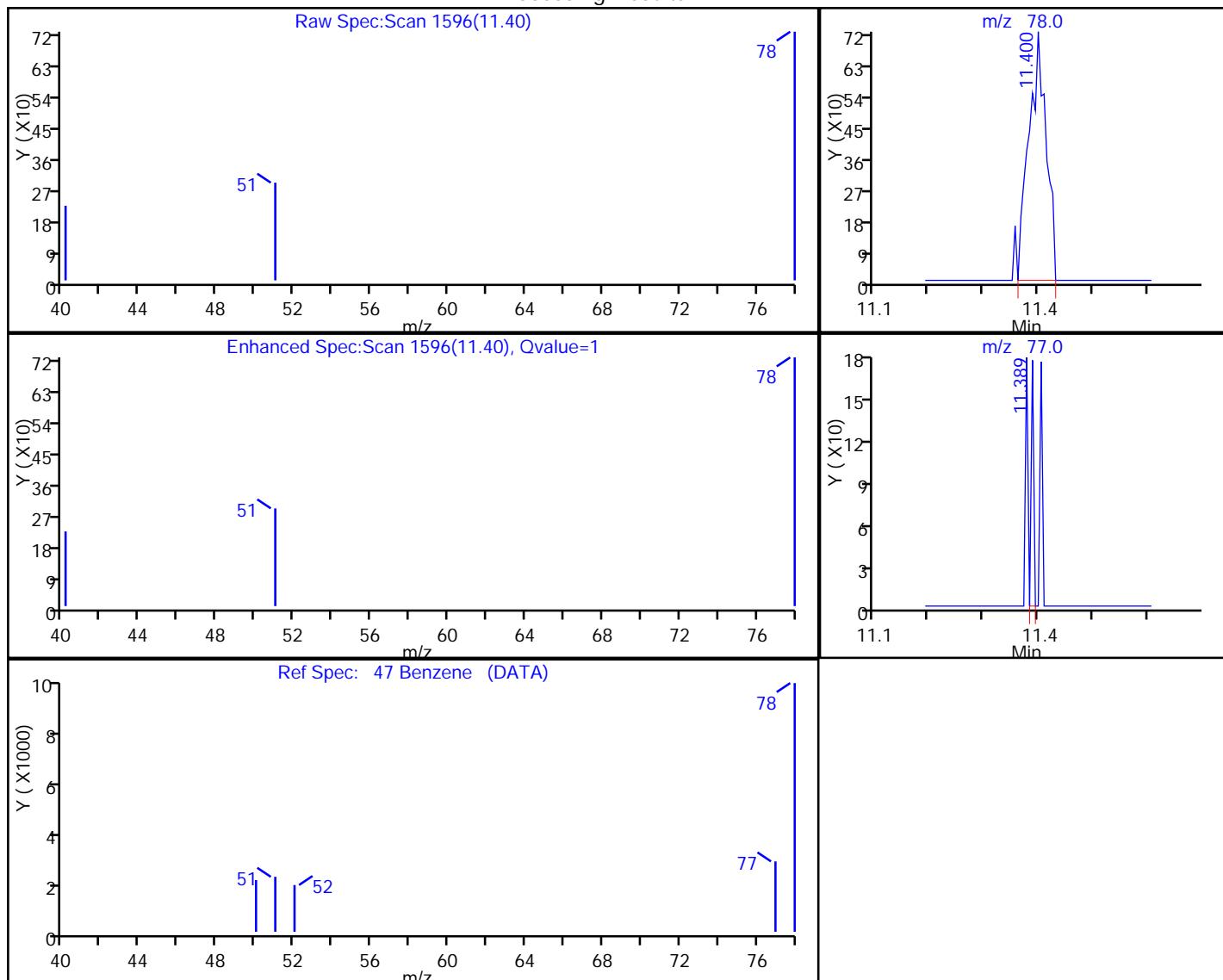
Audit Reason: Peak assignment corrected

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\29367_09.D
 Injection Date: 27-Feb-2018 18:48:30 Instrument ID: CHC.i
 Lims ID: 200-42375-A-1 Lab Sample ID: 200-42375-1
 Client ID: 4357
 Operator ID: pad ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector MS SCAN

47 Benzene, CAS: 71-43-2

Processing Results



RT	Mass	Response	Amount
11.40	78.00	1603	0.029550
11.39	77.00	55	

Reviewer: puangmaleek, 28-Feb-2018 11:03:42

Audit Action: Marked Compound Undetected

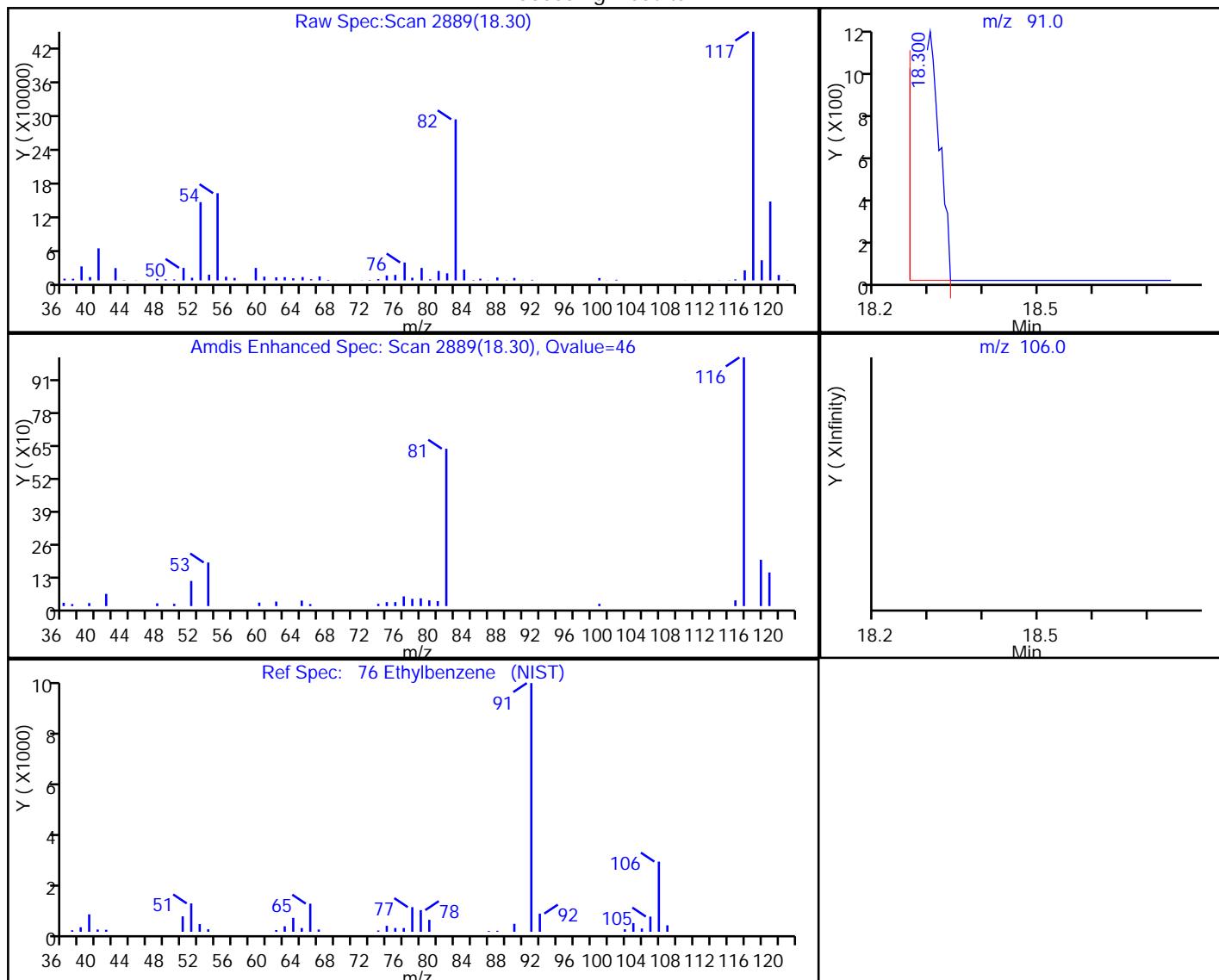
Audit Reason: Invalid Compound ID

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHC.i\\20180227-29367.b\\29367_09.D
 Injection Date: 27-Feb-2018 18:48:30 Instrument ID: CHC.i
 Lims ID: 200-42375-A-1 Lab Sample ID: 200-42375-1
 Client ID: 4357
 Operator ID: pad ALS Bottle#: 9 Worklist Smp#: 9
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_(v1)_CHC.i Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.30	91.00	2661	0.029942
18.52	106.00	0	

Reviewer: puangmaleek, 28-Feb-2018 11:03:42

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42405-1

SDG No.: _____

Client Sample ID: 2522

Lab Sample ID: 200-42405-6

Matrix: Air

Lab File ID: 29383_19.D

Analysis Method: TO-15

Date Collected: 02/27/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 03/01/2018 03:19

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126841

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
115-07-1	Propylene	1.0	U	1.0	1.0
75-71-8	Dichlorodifluoromethane	0.10	U	0.10	0.10
75-45-6	Freon 22	0.10	U	0.10	0.10
76-14-2	1,2-Dichlorotetrafluoroethane	0.040	U	0.040	0.040
74-87-3	Chloromethane	0.10	U	0.10	0.10
106-97-8	n-Butane	0.10	U	0.10	0.10
75-01-4	Vinyl chloride	0.040	U	0.040	0.040
106-99-0	1,3-Butadiene	0.040	U	0.040	0.040
74-83-9	Bromomethane	0.040	U	0.040	0.040
75-00-3	Chloroethane	0.10	U	0.10	0.10
593-60-2	Bromoethene (Vinyl Bromide)	0.040	U	0.040	0.040
75-69-4	Trichlorofluoromethane	0.040	U	0.040	0.040
64-17-5	Ethanol	1.0	U	1.0	1.0
76-13-1	Freon TF	0.040	U	0.040	0.040
75-35-4	1,1-Dichloroethene	0.040	U	0.040	0.040
67-64-1	Acetone	1.0	U	1.0	1.0
67-63-0	Isopropyl alcohol	1.0	U	1.0	1.0
75-15-0	Carbon disulfide	0.10	U	0.10	0.10
107-05-1	3-Chloropropene	0.10	U	0.10	0.10
75-09-2	Methylene Chloride	0.10	U	0.10	0.10
75-65-0	tert-Butyl alcohol	1.0	U	1.0	1.0
1634-04-4	Methyl tert-butyl ether	0.040	U	0.040	0.040
156-60-5	trans-1,2-Dichloroethene	0.040	U	0.040	0.040
110-54-3	n-Hexane	0.040	U	0.040	0.040
75-34-3	1,1-Dichloroethane	0.040	U	0.040	0.040
108-05-4	Vinyl acetate	1.0	U	1.0	1.0
141-78-6	Ethyl acetate	1.0	U	1.0	1.0
78-93-3	Methyl Ethyl Ketone	0.10	U	0.10	0.10
156-59-2	cis-1,2-Dichloroethene	0.040	U	0.040	0.040
540-59-0	1,2-Dichloroethene, Total	0.080	U	0.080	0.080
67-66-3	Chloroform	0.040	U	0.040	0.040
109-99-9	Tetrahydrofuran	1.0	U	1.0	1.0
71-55-6	1,1,1-Trichloroethane	0.040	U	0.040	0.040
110-82-7	Cyclohexane	0.040	U	0.040	0.040
56-23-5	Carbon tetrachloride	0.040	U	0.040	0.040
540-84-1	2,2,4-Trimethylpentane	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42405-1

SDG No.: _____

Client Sample ID: 2522

Lab Sample ID: 200-42405-6

Matrix: Air

Lab File ID: 29383_19.D

Analysis Method: TO-15

Date Collected: 02/27/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 03/01/2018 03:19

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126841

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
71-43-2	Benzene	0.040	U	0.040	0.040
107-06-2	1,2-Dichloroethane	0.040	U	0.040	0.040
142-82-5	n-Heptane	0.040	U	0.040	0.040
79-01-6	Trichloroethene	0.040	U	0.040	0.040
80-62-6	Methyl methacrylate	0.10	U	0.10	0.10
78-87-5	1,2-Dichloropropane	0.040	U	0.040	0.040
123-91-1	1,4-Dioxane	1.0	U	1.0	1.0
75-27-4	Bromodichloromethane	0.040	U	0.040	0.040
10061-01-5	cis-1,3-Dichloropropene	0.040	U	0.040	0.040
108-10-1	methyl isobutyl ketone	0.10	U	0.10	0.10
108-88-3	Toluene	0.040	U	0.040	0.040
10061-02-6	trans-1,3-Dichloropropene	0.040	U	0.040	0.040
79-00-5	1,1,2-Trichloroethane	0.040	U	0.040	0.040
127-18-4	Tetrachloroethene	0.040	U	0.040	0.040
591-78-6	Methyl Butyl Ketone (2-Hexanone)	0.10	U	0.10	0.10
124-48-1	Dibromochloromethane	0.040	U	0.040	0.040
106-93-4	1,2-Dibromoethane	0.040	U	0.040	0.040
108-90-7	Chlorobenzene	0.040	U	0.040	0.040
100-41-4	Ethylbenzene	0.040	U	0.040	0.040
179601-23-1	m,p-Xylene	0.10	U	0.10	0.10
95-47-6	Xylene, o-	0.040	U	0.040	0.040
1330-20-7	Xylene (total)	0.14	U	0.14	0.14
100-42-5	Styrene	0.040	U	0.040	0.040
75-25-2	Bromoform	0.040	U	0.040	0.040
98-82-8	Cumene	0.040	U	0.040	0.040
79-34-5	1,1,2,2-Tetrachloroethane	0.040	U	0.040	0.040
103-65-1	n-Propylbenzene	0.040	U	0.040	0.040
622-96-8	4-Ethyltoluene	0.040	U	0.040	0.040
108-67-8	1,3,5-Trimethylbenzene	0.040	U	0.040	0.040
95-49-8	2-Chlorotoluene	0.040	U	0.040	0.040
98-06-6	tert-Butylbenzene	0.040	U	0.040	0.040
95-63-6	1,2,4-Trimethylbenzene	0.040	U	0.040	0.040
135-98-8	sec-Butylbenzene	0.040	U	0.040	0.040
99-87-6	4-Isopropyltoluene	0.040	U	0.040	0.040
541-73-1	1,3-Dichlorobenzene	0.040	U	0.040	0.040
106-46-7	1,4-Dichlorobenzene	0.040	U	0.040	0.040

FORM I
AIR - GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Burlington

Job No.: 200-42405-1

SDG No.: _____

Client Sample ID: 2522

Lab Sample ID: 200-42405-6

Matrix: Air

Lab File ID: 29383_19.D

Analysis Method: TO-15

Date Collected: 02/27/2018 00:00

Sample wt/vol: 1000 (mL)

Date Analyzed: 03/01/2018 03:19

Soil Aliquot Vol: _____

Dilution Factor: 0.2

Soil Extract Vol.: _____

GC Column: RTX-624 ID: 0.32 (mm)

% Moisture: _____

Level: (low/med) Low

Analysis Batch No.: 126841

Units: ppb v/v

CAS NO.	COMPOUND NAME	RESULT	Q	RL	RL
100-44-7	Benzyl chloride	0.040	U	0.040	0.040
104-51-8	n-Butylbenzene	0.040	U	0.040	0.040
95-50-1	1,2-Dichlorobenzene	0.040	U	0.040	0.040
120-82-1	1,2,4-Trichlorobenzene	0.10	U	0.10	0.10
87-68-3	Hexachlorobutadiene	0.040	U	0.040	0.040
91-20-3	Naphthalene	0.10	U	0.10	0.10

TestAmerica Burlington
Target Compound Quantitation Report

Data File:	\ChromNA\Burlington\ChromData\CHX.i\20180228-29383.b\29383_19.D		
Lims ID:	200-42405-A-6		
Client ID:	2522		
Sample Type:	Client		
Inject. Date:	01-Mar-2018 03:19:30	ALS Bottle#:	19
Purge Vol:	200.000 mL	Dil. Factor:	0.2000
Sample Info:	200-0029383-019		
Operator ID:	pad	Instrument ID:	CHX.i
Method:	\ChromNA\Burlington\ChromData\CHX.i\20180228-29383.b\TO15_MasterMethod_X.m.m		
Limit Group:	AI_TO15_ICAL		
Last Update:	01-Mar-2018 16:03:30	Calib Date:	22-Feb-2018 02:49:30
Integrator:	RTE	ID Type:	Deconvolution ID
Quant Method:	Internal Standard	Quant By:	Initial Calibration
Last ICal File:	\ChromNA\Burlington\ChromData\CHX.i\20180221-29291.b\200-0029291-014.D		
Column 1 :	RTX-624 (0.32 mm)	Det:	MS SCAN
Process Host:	XAWRK024		

First Level Reviewer: puangmaleek

Date:

01-Mar-2018 16:03:30

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
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1 Propene	41	3.044					ND	
2 Dichlorodifluoromethane	85	3.113					ND	
3 Chlorodifluoromethane	51	3.156					ND	
4 1,2-Dichloro-1,1,2,2-tetra	85	3.354					ND	
5 Chloromethane	50	3.488					ND	
6 Butane	43	3.670					ND	
7 Vinyl chloride	62	3.713					ND	
8 Butadiene	54	3.782					ND	
10 Bromomethane	94	4.419					ND	
11 Chloroethane	64	4.638					ND	
13 Vinyl bromide	106	5.007					ND	
14 Trichlorofluoromethane	101	5.093					ND	
17 Ethanol	45	5.681	5.649	0.032	97	4523	0.2333	
20 1,1,2-Trichloro-1,2,2-trif	101	6.109					ND	
21 1,1-Dichloroethene	96	6.168					ND	
22 Acetone	43	6.414					ND	
23 Carbon disulfide	76	6.559					ND	
24 Isopropyl alcohol	45	6.692					ND	
25 3-Chloro-1-propene	41	6.938					ND	
27 Methylene Chloride	49	7.233					ND	
28 2-Methyl-2-propanol	59	7.463					ND	
29 Methyl tert-butyl ether	73	7.634					ND	
31 trans-1,2-Dichloroethene	61	7.666					ND	
33 Hexane	57	8.041					ND	
34 1,1-Dichloroethane	63	8.549					ND	
35 Vinyl acetate	43	8.629					ND	
S 30 1,2-Dichloroethene, Total	61	9.665					ND	
37 cis-1,2-Dichloroethene	96	9.688					ND	
38 2-Butanone (MEK)	72	9.747					ND	
39 Ethyl acetate	88	9.785					ND	
* 40 Chlorobromomethane	128	10.170	10.170	0.000	85	219504	10.0	
41 Tetrahydrofuran	42	10.180					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ppb v/v	Flags
42 Chloroform	83		10.309				ND	
43 Cyclohexane	84		10.550				ND	
44 1,1,1-Trichloroethane	97		10.587				ND	
45 Carbon tetrachloride	117		10.844				ND	
46 Isooctane	57		11.293				ND	
47 Benzene	78		11.341				ND	
48 1,2-Dichloroethane	62		11.550				ND	
49 n-Heptane	43		11.716				ND	
* 50 1,4-Difluorobenzene	114	12.245	12.245	0.000	99	1373987	10.0	
53 Trichloroethene	95		12.738				ND	
54 1,2-Dichloropropane	63		13.337				ND	
55 Methyl methacrylate	69		13.519				ND	
56 1,4-Dioxane	88		13.588				ND	
57 Dibromomethane	174		13.610				ND	
58 Dichlorobromomethane	83		13.920				ND	
60 cis-1,3-Dichloropropene	75		14.904				ND	
61 4-Methyl-2-pentanone (MIBK)	43		15.214				ND	
65 Toluene	92		15.509				ND	
66 trans-1,3-Dichloropropene	75		16.156				ND	
67 1,1,2-Trichloroethane	83		16.552				ND	
68 Tetrachloroethene	166		16.638				ND	
69 2-Hexanone	43		17.033				ND	
71 Chlorodibromomethane	129		17.349				ND	
72 Ethylene Dibromide	107		17.627				ND	
* 74 Chlorobenzene-d5	117	18.574	18.574	0.000	98	1211403	10.0	
75 Chlorobenzene	112		18.638				ND	
76 Ethylbenzene	91		18.804				ND	U
78 m-Xylene & p-Xylene	106		19.066				ND	
S 73 Xylenes, Total	106		19.600				ND	
79 o-Xylene	106		19.965				ND	
80 Styrene	104		20.024				ND	
81 Bromoform	173		20.495				ND	
82 Isopropylbenzene	105		20.725				ND	
84 1,1,2,2-Tetrachloroethane	83		21.452				ND	
85 N-Propylbenzene	91		21.511				ND	
88 4-Ethyltoluene	105		21.720				ND	
89 2-Chlorotoluene	91		21.720				ND	
90 1,3,5-Trimethylbenzene	105		21.832				ND	
92 tert-Butylbenzene	119		22.351				ND	
93 1,2,4-Trimethylbenzene	105		22.453				ND	
94 sec-Butylbenzene	105		22.693				ND	
95 4-Isopropyltoluene	119		22.913				ND	
96 1,3-Dichlorobenzene	146		22.939				ND	
97 1,4-Dichlorobenzene	146		23.079				ND	
98 Benzyl chloride	91		23.293				ND	
100 n-Butylbenzene	91		23.507				ND	
101 1,2-Dichlorobenzene	146		23.635				ND	
103 1,2,4-Trichlorobenzene	180		26.197				ND	
104 Hexachlorobutadiene	225		26.385				ND	
105 Naphthalene	128		26.690				ND	

QC Flag Legend

Review Flags

U - Marked Undetected

Reagents:

ATTO15XISs_00002

Amount Added: 20.00

Units: mL

Run Reagent

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Report Date: 01-Mar-2018 16:03:30

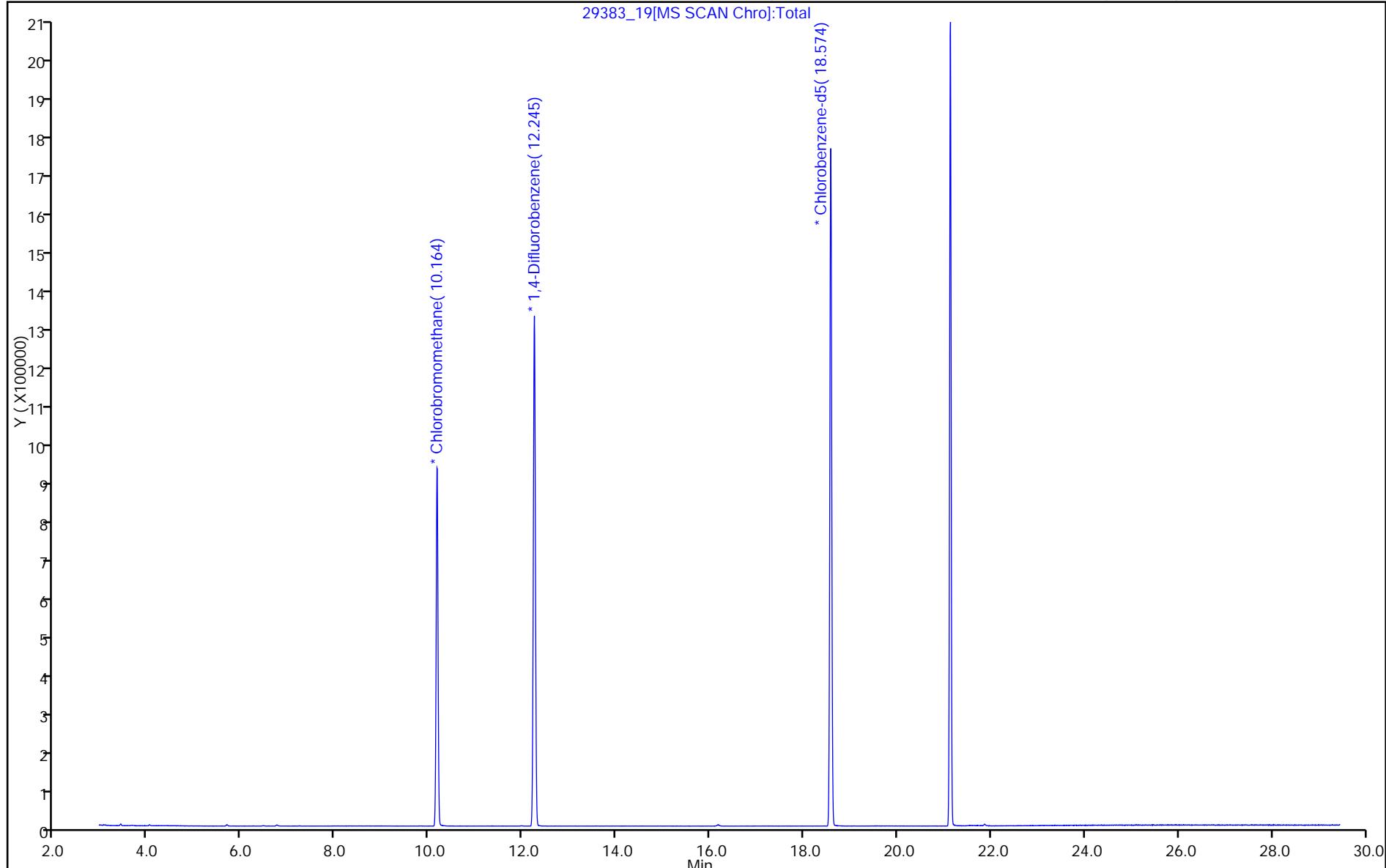
Chrom Revision: 2.2 08-Feb-2018 13:38:42

TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHX.i\\20180228-29383.b\\29383_19.D
Injection Date: 01-Mar-2018 03:19:30 Instrument ID: CHX.i Operator ID: pad
Lims ID: 200-42405-A-6 Lab Sample ID: 200-42405-6 Worklist Smp#: 19
Client ID: 2522
Purge Vol: 200.000 mL Dil. Factor: 0.2000 ALS Bottle#: 19
Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
Column: RTX-624 (0.32 mm)

Y Scaling: Method Defined: Scale to the Nth Largest Target: 1

29383_19[MS SCAN Chro]:Total



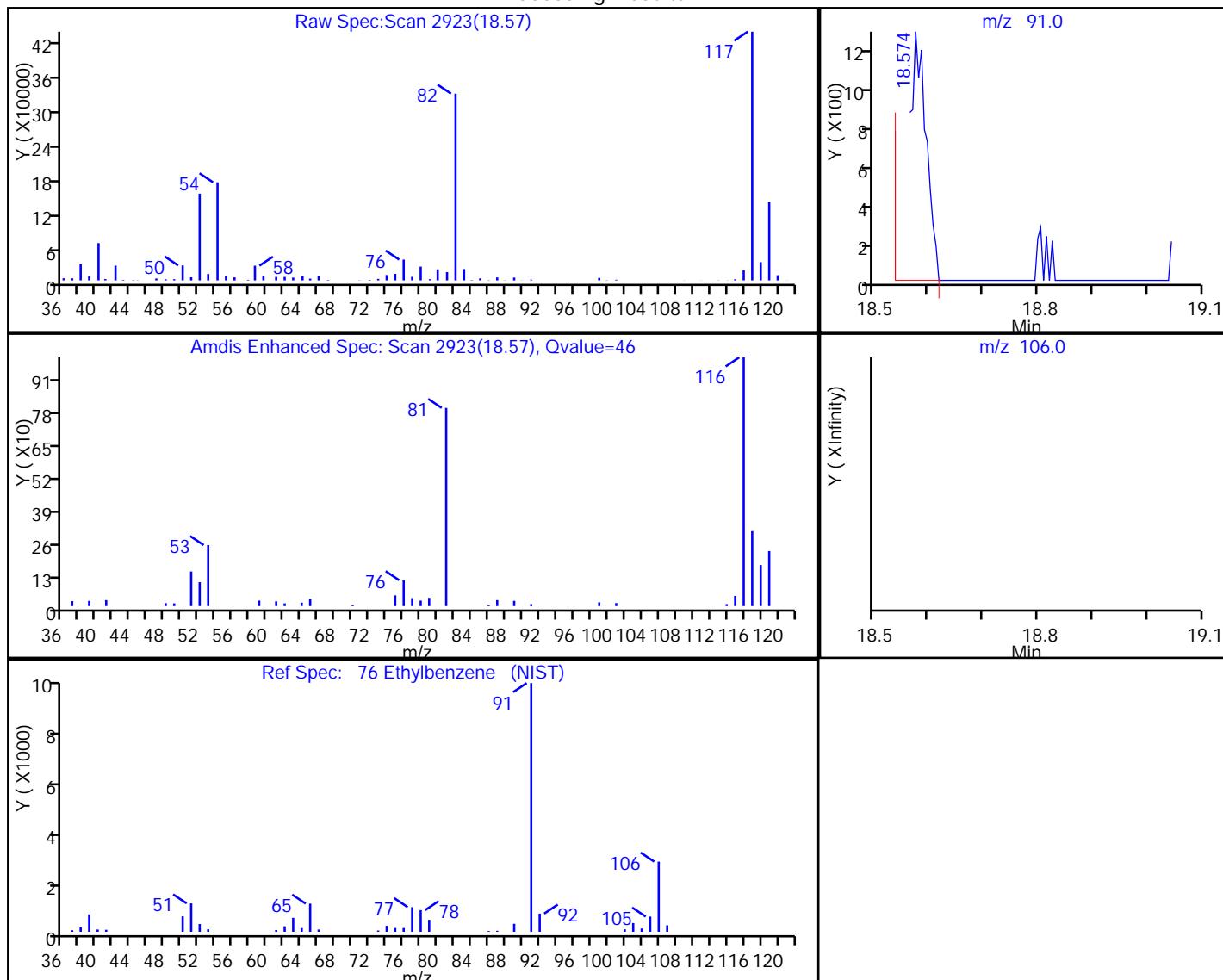
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TestAmerica Burlington

Data File: \\ChromNA\\Burlington\\ChromData\\CHX.i\\20180228-29383.b\\29383_19.D
 Injection Date: 01-Mar-2018 03:19:30 Instrument ID: CHX.i
 Lims ID: 200-42405-A-6 Lab Sample ID: 200-42405-6
 Client ID: 2522
 Operator ID: pad ALS Bottle#: 19 Worklist Smp#: 19
 Purge Vol: 200.000 mL Dil. Factor: 0.2000
 Method: TO15_MasterMethod_X.m Limit Group: AI_TO15_ICAL
 Column: RTX-624 (0.32 mm) Detector: MS SCAN

76 Ethylbenzene, CAS: 100-41-4

Processing Results



RT	Mass	Response	Amount
18.57	91.00	3132	0.016695
18.80	106.00	0	

Reviewer: puangmaleek, 01-Mar-2018 16:03:30

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Accreditation/Certification Summary

Client: EHS Support, LLC

Project/Site: Ashland Alterman (Jonesboro)

TestAmerica Job ID: 200-42776-1

Laboratory: TestAmerica Burlington

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
ANAB	DoD ELAP		L2336	02-25-20
Connecticut	State Program	1	PH-0751	09-30-19
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	NA	02-01-19
Florida	NELAP	4	E87467	06-30-18
Maine	State Program	1	VT00008	04-17-19
Minnesota	NELAP	5	050-999-436	12-31-18
New Jersey	NELAP	2	VT972	06-30-18
New York	NELAP	2	10391	04-01-18 *
Pennsylvania	NELAP	3	68-00489	04-30-18 *
Rhode Island	State Program	1	LAO00298	12-30-18
US Fish & Wildlife	Federal		LE-058448-0	07-31-18
USDA	Federal		P330-11-00093	07-24-20
Vermont	State Program	1	VT-4000	12-31-18
Virginia	NELAP	3	460209	12-14-18

Laboratory: TestAmerica Savannah

The accreditations/certifications listed below are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Georgia	State Program	4	803	06-30-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Burlington



Appendix E J&E Modeling Forms

Model Input

Site Name/Run Number:

FRSC-02S

Note:

- Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
- Dotted outline cells indicate default values that may be changed with justification.
- Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

[Use English / Metric Converter](#)

Source Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source		Exterior Soil Gas					
Soil gas concentration	(ug/m ³)	Cmedium				NA			Please enter a value for Cmedium
Depth below grade to soil gas sample	(m)	Ls		1.26		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts		25	25	3-30			
Calc: Source vapor concentration	(ug/m ³)	Cs		0					
Calc: % of pure component saturated vapor concentration	(%)	%Sat		0.000%					
Chemical:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem		Tetrachloroethylene					
CAS No.		CAS		127-18-4					
Toxicity Factors									
Unit risk factor	(ug/m ³) ⁻¹	IUR		2.60E-07	2.60E-07	NA	NA		
Mutagenic compound		Mut		No		NA	NA		
Reference concentration	(mg/m ³)	RfC		4.00E-02	4.00E-02	NA	NA		
Chemical Properties:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S		2.06E+02	2.06E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc		1.77E-02	1.77E-02	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr		7.24E-01	7.24E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs		7.24E-01	7.24E-01				
Diffusivity in air	(cm ² /s)	Dair		5.05E-02	5.05E-02	NA	NA		
Diffusivity in water	(cm ² /s)	Dwater		9.46E-06	9.46E-06	NA	NA		
Building Characteristics:									
Select Building Assumptions									
<input checked="" type="radio"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)									
<input type="checkbox"/> Specify Qsoil and Qbuilding separately; calculate ratio									
Building Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Commercial	Commercial	Commercial				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade					
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.1 - 2.44	NA			
Foundation thickness	(m)	Lf	0.20	0.20	0.1 - 0.25	NA			
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00			
Enclosed space floor area	(m ²)	Abf	140.00	1500.00	80-1000	NA			
Enclosed space mixing height	(m)	Hb	3.00	3.00	2.13 - 3.05	NA			
Indoor air exchange rate	(l / hr)	ach	1.50	1.50	.3-4.1	NA			
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24			
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	6750.00	NA	0.30			
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	20.25	NA	NA			

Model Input

Site Name/Run Number:

FRSC-02S

Chemical Name: Tetrachloroethylene
CAS No. 127-18-4

Depth below grade to soil gas sample: 1.26 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Sandy Clay					
Stratum A thickness (from surface)	(m)	hSA	1.26					
Stratum A total porosity	(-)	nSA	0.400	0.385	NA	0.20	WARNING	Value is different from default value; please justify.
Stratum A water-filled porosity	(-)	nwSA	0.213	0.197	0.117 - 0.28	0.25	WARNING	Value is different from default value; please justify.
Stratum A bulk density	(g/cm ³)	rhoSA	1.600	1.630	NA	0.05	WARNING	Value is different from default value; please justify.
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC						
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-06	NA	NA	WARNING	Value is different from default value; please justify.
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Commercial	Commercial				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	25	25	NA	NA		
Exposure duration	(yrs)	ED	25	25	NA	NA		
Exposure frequency	(days/yr)	EF	250	250	NA	NA		
Exposure time	(hrs/24 hrs)	ET	8	8	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic compounds

Model Output		Site Name/Run Number:		FRSC-02S	Range is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature.								
Chemical Name: Tetrachloroethylene CAS No. 127-18-4													
Source to Indoor Air Attenuation Factor		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment				
Soil gas to indoor air attenuation coefficient		(-)	alpha	9.3E-05	4.9E-05 - 9.5E-05	9.7E-05	5.0E-05 - 1.0E-04	WARNING	Please review warning messages				
Predicted Indoor Air Concentration		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment				
Indoor air concentration due to vapor intrusion		(ug/m3) (ppbv)	Cia	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	WARNING	Please review warning messages				
Predicted Vapor Conc. Beneath Foundation		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment				
Subslab vapor concentration		(ug/m3) (ppbv)	Css	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00						
Diffusive Transport Upward Through Vadose Zone		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment				
Effective diffusion coefficient through Stratum A		(cm ² /sec)	DeffA	1.2E-03	-	1.3E-03	-						
Effective diffusion coefficient through Stratum B		(cm ² /sec)	DeffB	-	-	-	-						
Effective diffusion coefficient through Stratum C		(cm ² /sec)	DeffC	-	-	-	-						
Effective diffusion coefficient through unsaturated zone		(cm ² /sec)	DeffT	1.2E-03	-	1.3E-03	-						
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag						
α for diffusive transport from source to building with dirt floor foundation		(-)	A_Param	9.6E-05	-	1.0E-04							
Pe (Peclet Number) for transport through the foundation (advection / diffusion)		(-)	B_Param	5.9E+03	2.0E+02 - 9.9E+04	5.6E+03	1.9E+02 - 9.4E+04						
α for convective transport from subslab to building		(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02						
Interpretation		Concentration versus Depth Profile											
Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process.		<p>The graph plots Soil Gas Concentration (ug/m3) on the x-axis (0.0E+00 to 1.2E+00) against Depth (meter) on the y-axis (0.0 to 1.2). A single data point is labeled "Measured" at approximately (0.85, 0.05).</p> <table border="1"> <caption>Data from Concentration versus Depth Profile</caption> <thead> <tr> <th>Depth (meter)</th> <th>Soil Gas Concentration (ug/m3)</th> </tr> </thead> <tbody> <tr> <td>0.85</td> <td>0.05</td> </tr> </tbody> </table>								Depth (meter)	Soil Gas Concentration (ug/m3)	0.85	0.05
Depth (meter)	Soil Gas Concentration (ug/m3)												
0.85	0.05												
Critical Parameters													
Hb, Ls, DeffT, ach													
Non-Critical Parameters													
Qsoil_Qb, Lf, DeffA, eta													

Please check WARNING or ERROR flags

Model Output		Site Name/Run Number: FRSC-028							
Chemical Name: Tetrachloroethylene		CAS No. 127-18-4							
Risk Calculations		Units	Symbol	Value	Range	Default	Range	Flag	Comment
Risk-Based Target Screening Levels		Scenario: Commercial							
Target risk for carcinogens	(-)		Target_CR	1E-05	-	1E-06	-		
Target hazard quotient for noncarcinogens	(-)		Target_HQ	1	-	1	-		
Target indoor air concentration	(ug/m3)		Target_IA	1.75E+02	-	4.72E+01	-		Target indoor air concentration based on non-cancer toxicity (reference concentration)
Target soil gas concentration	(ppbv) (ug/m3)		Target_SV	2.58E+01 1.89E+06	1.8E+06 - 3.6E+06	6.96E+00 4.85E+05	4.7E+05 - 9.4E+05		
Incremental Risk Estimates									
Incremental cancer risk from vapor intrusion	(-)		Cancer_Risk	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		
Hazard quotient from vapor intrusion	(-)		HQ	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

Source Characteristics:				Tetrachloroethylene	Trichloroethylene
Chemical:	Units	Symbol	Value	Value	
Source medium		Source	Exterior Soil Gas	Exterior Soil Gas	
Soil gas concentration	(ug/m3)	Cmedium	20000	540	
Depth below grade to soil gas sample	(m)	Ls	1.26	1.26	
Average vadose zone temperature	(°C)	Ts	25	25	
Calc: Source vapor concentration	(ug/m3)	Cs	20000	540	
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.012%	0.000%	
Chemical Name		Chem	Tetrachloroethylene	Trichloroethylene	
CAS No.		CAS	127-18-4	79-01-6	
Toxicity Factors					
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07	see note	
Mutagenic compound		Mut	No	Yes	
Reference concentration	(ug/m ³)	RfC	4.00E-02	2.00E-03	
Chemical Properties:			Value	Value	
Pure component water solubility	(mg/L)	S	2.06E+02	1.28E+03	
Henry's Law Constant @ 25°C	(atm·m ⁻³ /mol)	Hc	1.77E-02	9.85E-03	
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01	4.03E-01	
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01	4.03E-01	
Diffusivity in air	(cm ² /s)	Dair	5.05E-02	6.87E-02	
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06	1.02E-05	
Building Characteristics:			Value	Value	
Building setting		Bldg_Setting	Commercial	Commercial	
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade	
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	
Foundation thickness	(m)	Lf	0.20	0.20	
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	
Enclosed space floor area	(m ²)	Ab	140.00	140.00	
Enclosed space mixing height	(m)	Hb	3.00	3.00	
Indoor air exchange rate	(1/hr)	ach	1.50	1.50	
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	630.00	
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	1.89	

Vadose zone characteristics:	Units	Symbol	Value	Value
Stratum A (Top of soil profile):				
Stratum A SCS soil type				
Stratum A thickness (from surface)	(m)	SCS_A	Sandy Clay	Sandy Clay
Stratum A total porosity	(-)	hSA	1.26	1.26
Stratum A water-filled porosity	(-)	nSA	0.400	0.400
Stratum A bulk density	(g/cm ³)	nwSA	0.213	0.213
		rhoSA	1.600	1.600
Stratum B (Soil layer below Stratum A):				
Stratum B SCS soil type				
Stratum B thickness	(m)	SCS_B	Not Present	Not Present
Stratum B total porosity	(-)	hSB		
Stratum B water-filled porosity	(-)	nSB		
Stratum B bulk density	(g/cm ³)	nwSB		
		rhoSB		
Stratum C (Soil layer below Stratum B):				
Stratum C SCS soil type				
Stratum C thickness	(m)	SCS_C	Not Present	Not Present
Stratum C total porosity	(-)	hSC		
Stratum C water-filled porosity	(-)	nSC		
Stratum C bulk density	(g/cm ³)	nwSC		
		rhoSC		
Stratum containing soil gas sample				
Stratum A, B, or C		src_soil	Stratum A	Stratum A

Exposure Parameters:	Units	Symbol	Value	Value
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-05
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1
Exposure Scenario		Scenario	Commercial	Commercial
Averaging time for carcinogens	(yrs)	ATc	70	70
Averaging time for non-carcinogens	(yrs)	ATnc	25	25
Exposure duration	(yrs)	ED	25	25
Exposure frequency	(days/yr)	EF	250	250
Exposure time	(hrs/24 hrs)	ET	8	8
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Value
Soil gas to indoor air attenuation coefficient	(-)	alpha	9.3E-05	1.2E-04
Range			4.9E-05 - 9.5E-05	5.7E-05 - 1.3E-04
Predicted Indoor Air Concentration				
Indoor air concentration due to vapor intrusion				
(ug/m ³)		Cia	1.9E+00	6.7E-02
		Range	9.8E-01 - 1.9E+00	3.1E-02 - 7.0E-02
(ppbv)		Cia	2.7E-01	1.3E-02
		Range	1.4E-01 - 2.8E-01	5.7E-03 - 1.3E-02
Predicted Vapor Concentration Beneath the Foundation				
Subslab vapor concentration				
(ug/m ³)		Css	6.2E+02	2.2E+01
		Range	3.8E+01 - 9.8E+03	1.4E+00 - 3.1E+02
(ppbv)		Css	9.1E+01	4.2E+00
		Range	5.6E+00 - 1.4E+03	2.6E-01 - 5.7E+01

Diffusive Transport Upward Through Vadose Zone			Value	Value
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA	1.2E-03	1.6E-03
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB		
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC		
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	DeffT	1.2E-03	1.6E-03

Critical Parameters			Value	Value
α for diffusive transport from source to building with	(-)	A_Param	9.6E-05	1.3E-04
Pe (Peclet Number) for transport through the foundation	(-)	B_Param	5.9E+03	4.4E+03
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	3.0E-03

<u>Interpretation</u>		
		Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process.

<u>Critical Parameters</u>		
	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach

<u>Non-Critical Parameters</u>		
	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta

Risk Calculations	Units	Symbol	Value	Value
Risk-Based Target Screening Levels				
Target risk for carcinogens	(-)	Target_CR	1E-05	1E-05
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	1
Target indoor air concentration	(ug/m ³)	Target_IA	1.75E+02	2.05E+01
	(ppbv)	Target_IA	2.58E+01	3.82E+00
Target soil gas concentration	(ug/m ³)	Target_SV	1.89E+06	1.64E+05
Incremental Risk Estimates				
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	3.93E-08	8.73E-08
	Range		2.1E-08 - 4.0E-08	4.0E-08 - 9.1E-08
Hazard quotient from vapor intrusion	(-)	HQ	0.010576876	0.007686442
	Range		5.6E-03 - 1.1E-02	3.5E-03 - 8.0E-03

Model Input

Site Name/Run Number:

FRSC-02S

Note:

- Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
- Dotted outline cells indicate default values that may be changed with justification.
- Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

[Use English / Metric Converter](#)

Source Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source	Exterior Soil Gas						
Soil gas concentration	(ug/m ³)	Cmedium				NA			Please enter a value for Cmedium
Depth below grade to soil gas sample	(m)	Ls	1.26			Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts	25		25	3-30			
Calc: Source vapor concentration	(ug/m ³)	Cs	0						
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.000%						
Chemical:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem	Tetrachloroethylene						
CAS No.		CAS	127-18-4						
Toxicity Factors									
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07		2.60E-07	NA	NA		
Mutagenic compound		Mut	No			NA	NA		
Reference concentration	(mg/m ³)	RfC	4.00E-02		4.00E-02	NA	NA		
Chemical Properties:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S	2.06E+02		2.06E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	1.77E-02		1.77E-02	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01		7.24E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01		7.24E-01				
Diffusivity in air	(cm ² /s)	Dair	5.05E-02		5.05E-02	NA	NA		
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06		9.46E-06	NA	NA		
Building Characteristics:									
<input type="checkbox"/> Select Building Assumptions <input checked="" type="checkbox"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available) <input type="checkbox"/> Specify Qsoil and Qbuilding separately; calculate ratio									
Building setting		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Foundation type		Bldg_Setting	Commercial	Commercial	Commercial				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade					
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.1 - 2.44	NA			
Foundation thickness	(m)	Lf	0.20	0.20	0.1 - 0.25	NA			
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00			
Enclosed space floor area	(m ²)	Abf	140.00	1500.00	80-1000	NA			
Enclosed space mixing height	(m)	Hb	3.00	3.00	2.13 - 3.05	NA			
Indoor air exchange rate	(1 / hr)	ach	1.50	1.50	.3-4.1	NA			
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24			
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	6750.00	NA	0.30			
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	20.25	NA	NA			

Model Input

Site Name/Run Number: FRSC-02S
 Chemical Name: Tetrachloroethylene
 CAS No. 127-18-4
 Depth below grade to soil gas sample: 1.26 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type								
Stratum A thickness (from surface)	(m)	hSA	SCS_A Sand 1.26					
Stratum A total porosity	(-)	nSA	0.375	0.375	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.054	0.054	0.053 - 0.055	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.660	1.660	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type								
Stratum B thickness	(m)	hSB	SCS_B Not Present					
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type								
Stratum C thickness	(m)	hSC	SCS_C Not Present					
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A		NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:								
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-06	NA	NA	WARNING	Value is different from default value; please justify.
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Commercial	Commercial				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	25	25	NA	NA		
Exposure duration	(yrs)	ED	25	25	NA	NA		
Exposure frequency	(days/yr)	EF	250	250	NA	NA		
Exposure time	(hrs/24 hrs)	ET	8	8	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic compounds

Model Output
Chemical Name: Tetrachloroethylene

Site Name/Run Number: FRSC-02S
CAS No. 127-18-4

Range is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature.

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Soil gas to indoor air attenuation coefficient	(-)	alpha	5.4E-04	8.7E-05 - 6.5E-04	5.2E-04	8.6E-05 - 6.2E-04	WARNING	Please review warning messages
Predicted Indoor Air Concentration	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Indoor air concentration due to vapor intrusion	(ug/m3) (ppbv)	Cia	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	WARNING	Please review warning messages
Predicted Vapor Conc. Beneath Foundation	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Subslab vapor concentration	(ug/m3) (ppbv)	Css	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00		
Diffusive Transport Upward Through Vadose Zone	Units	Symbol	Value	Range	Default	Default Range	Flag	Comment
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA	8.2E-03	-	8.2E-03	-		
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB	-	-	-	-		
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC	-	-	-	-		
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	Deftt	8.2E-03	-	8.2E-03	-		

Critical Parameters	Symbol	Value	Range	Default	Default Range	Flag
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	6.6E-04	-	6.3E-04	
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	8.6E+02	2.9E+01 - 1.4E+04	9.0E+02	3.0E+01 - 1.5E+04
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02

Interpretation

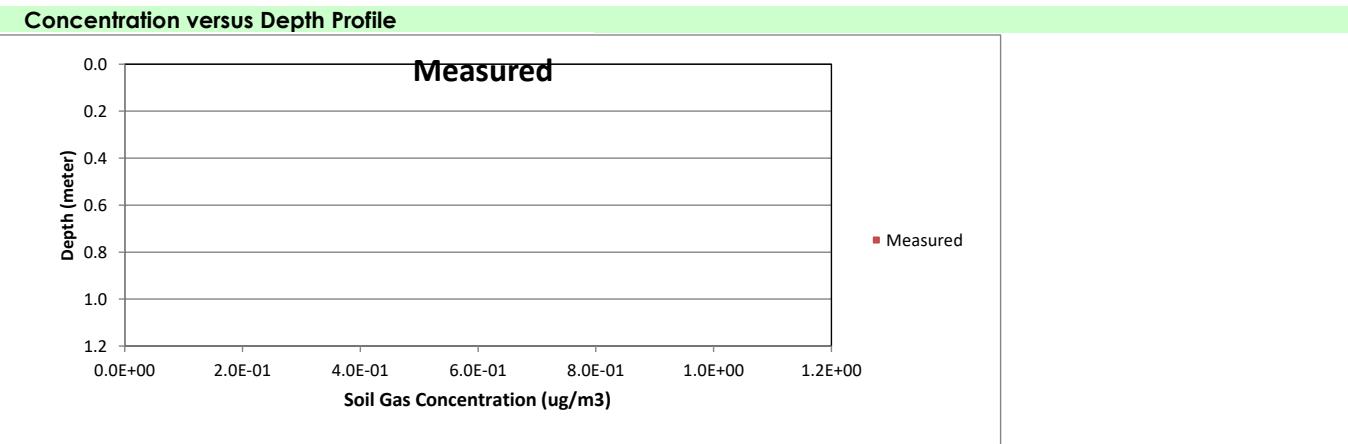
Advection is the dominant mechanism across the foundation.
Diffusion through soil and advection through foundation both control intrusion.

Critical Parameters

Hb, Ls, Deftt, ach, Qsoil_Qb

Non-Critical Parameters

Lf, DeffA, etc



Please check WARNING or ERROR flags

Model Output Site Name/Run Number: FRSC-02S
 Chemical Name: Tetrachloroethylene CAS No. 127-18-4

Risk Calculations	Units	Symbol	Value	Range	Default	Range	Flag	Comment
Risk-Based Target Screening Levels		Scenario: Commercial						
Target risk for carcinogens	(-)	Target_CR	1E-05	-	1E-06	-		
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	-	1	-		
Target indoor air concentration	(ug/m3)	Target_IA	1.75E+02	-	4.72E+01	-		Target indoor air concentration based on non-cancer toxicity (reference concentration)
Target soil gas concentration	(ppbv) (ug/m3)	Target_SV	2.58E+01 3.25E+05	2.7E+05 - 2.0E+06	6.96E+00 9.08E+04	7.6E+04 - 5.5E+05		
Incremental Risk Estimates								
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		
Hazard quotient from vapor intrusion	(-)	HQ	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

Source Characteristics:	Units	Symbol	Tetrachloroethylene	Trichloroethylene
			Value	Value
Source medium		Source	Exterior Soil Gas	Exterior Soil Gas
Soil gas concentration	(ug/m3)	Cmedium	20000	540
Depth below grade to soil gas sample	(m)	Ls	1.26	1.26
Average vadose zone temperature	(°C)	Ts	25	25
Calc: Source vapor concentration	(ug/m3)	Cs	20000	540
Calc: % of pure component saturated vapor concentration	(%)	%Sat	0.012%	0.000%
Chemical:	Units	Symbol	Value	Value
Chemical Name		Chem	Tetrachloroethylene	Trichloroethylene
CAS No.		CAS	127-18-4	79-01-6
Toxicity Factors				
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07	see note
Mutagenic compound		Mut	No	Yes
Reference concentration	(ug/m ³)	RfC	4.00E-02	2.00E-03
Chemical Properties:	Units	Symbol	Value	Value
Pure component water solubility	(mg/L)	S	2.06E+02	1.28E+03
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	1.77E-02	9.85E-03
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01	4.03E-01
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01	4.03E-01
Diffusivity in air	(cm ² /s)	Dair	5.05E-02	6.87E-02
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06	1.02E-05
Building Characteristics:	Units	Symbol	Value	Value
Building setting		Bldg_Setting	Commercial	Commercial
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade
Depth below grade to base of foundation	(m)	Lb	0.20	0.20
Foundation thickness	(m)	Lf	0.20	0.20
Fraction of foundation area with cracks	(-)	eta	0.001	0.001
Enclosed space floor area	(m ²)	Ab	140.00	140.00
Enclosed space mixing height	(m)	Hb	3.00	3.00
Indoor air exchange rate	(1/hr)	ach	1.50	1.50
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	630.00
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	1.89
Vadose zone characteristics:	Units	Symbol	Value	Value
Stratum A (Top of soil profile):				
Stratum A SCS soil type		SCS_A	Sand	Sand
Stratum A thickness (from surface)	(m)	hSA	1.26	1.26
Stratum A total porosity	(-)	nSA	0.375	0.375

Stratum A water-filled porosity	(-)	nwSA	0.054	0.054
Stratum A bulk density	(g/cm ³)	rhoSA	1.660	1.660
Stratum B (Soil layer below Stratum A):				
Stratum B SCS soil type		SCS_B	Not Present	Not Present
Stratum B thickness	(m)	hSB		
Stratum B total porosity	(-)	nSB		
Stratum B water-filled porosity	(-)	nwSB		
Stratum B bulk density	(g/cm ³)	rhoSB		
Stratum C (Soil layer below Stratum B):				
Stratum C SCS soil type		SCS_C	Not Present	Not Present
Stratum C thickness	(m)	hSC		
Stratum C total porosity	(-)	nSC		
Stratum C water-filled porosity	(-)	nwSC		
Stratum C bulk density	(g/cm ³)	rhoSC		
Stratum containing soil gas sample				
Stratum A, B, or C		src_soil	Stratum A	Stratum A

Exposure Parameters:	Units	Symbol	Value	Value
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-05
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1
Exposure Scenario		Scenario	Commercial	Commercial
Averaging time for carcinogens	(yrs)	ATc	70	70
Averaging time for non-carcinogens	(yrs)	ATnc	25	25
Exposure duration	(yrs)	ED	25	25
Exposure frequency	(days/yr)	EF	250	250
Exposure time	(hrs/24 hrs)	ET	8	8
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Value
Soil gas to indoor air attenuation coefficient	(-)	alpha	5.4E-04	6.9E-04
		Range	8.7E-05 - 6.5E-04	9.0E-05 - 8.8E-04

Predicted Indoor Air Concentration			Value	Value
Indoor air concentration due to vapor intrusion	(ug/m ³)	Cia	1.1E+01	3.7E-01
		Range	1.7E+00 - 1.3E+01	4.9E-02 - 4.7E-01
	(ppbv)	Cia	1.6E+00	6.9E-02
		Range	2.6E-01 - 1.9E+00	9.0E-03 - 8.8E-02

Predicted Vapor Concentration Beneath the Foundation			Value	Value
Subslab vapor concentration	(ug/m ³)	Css	3.6E+03	1.2E+02
		Range	2.6E+02 - 1.7E+04	9.5E+00 - 4.9E+02
	(ppbv)	Css	5.3E+02	2.3E+01
		Range	3.8E+01 - 2.6E+03	1.8E+00 - 9.0E+01

Diffusive Transport Upward Through Vadose Zone			Value	Value
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA	8.2E-03	1.1E-02
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB		
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC		

Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	Defft	8.2E-03	1.1E-02
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Critical Parameters			Value	Value
α for diffusive transport from source to building with	(-)	A_Param	6.6E-04	8.9E-04
Pe (Peclet Number) for transport through the foundation	(-)	B_Param	8.6E+02	6.3E+02
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	3.0E-03

Interpretation

Advection is the dominant mechanism across the foundation.
 Diffusion through soil and Diffusion through soil and advection through foundation both control intrusion.

Critical Parameters

Hb, Ls, DeffT, ach, Qsoil_C Hb, Ls, DeffT, ach, Qsoil_Qb

Non-Critical Parameters

Lf, DeffA, eta Lf, DeffA, eta

Risk Calculations

Units

Symbol

Value

Value

Risk-Based Target Screening Levels

Target risk for carcinogens	(-)	Target_CR	1E-05	1E-05
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	1
Target indoor air concentration	(ug/m3) (ppbv)	Target_IA Target_IA	1.75E+02 2.58E+01	2.05E+01 3.82E+00
Target soil gas concentration	(ug/m3)	Target_SV	3.25E+05	2.98E+04

Incremental Risk Estimates

Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	2.29E-07	4.83E-07
		Range	3.7E-08 - 2.8E-07	6.3E-08 - 6.2E-07
Hazard quotient from vapor intrusion	(-)	HQ	0.061553062	0.042470494

Range
9.9E-03 - 7.4E-02

Range
5.5E-03 - 5.4E-02

Model Input		Site Name/Run Number:		TSC-02					
<p>Note:</p> <ul style="list-style-type: none"> -Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user. -Dotted outline cells indicate default values that may be changed with justification. -Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information. 									
Use English / Metric Converter									
Source Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source		Exterior Soil Gas					
Soil gas concentration	(ug/m ³)	Cmedium				NA			Please enter a value for Cmedium
Depth below grade to soil gas sample	(m)	Ls		1.26	Vary - 50				
Average vadose zone temperature	(°C)	Ts		25	3-30				
Calc: Source vapor concentration	(ug/m ³)	Cs		0					
Calc: % of pure component saturated vapor concentration	(%)	%Sat		0.000%					
Chemical:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem		Tetrachloroethylene					
CAS No.		CAS		127-18-4					
Toxicity Factors									
Unit risk factor	(ug/m ³) ⁻¹	IUR		2.60E-07	2.60E-07	NA	NA		
Mutagenic compound		Mut		No		NA	NA		
Reference concentration	(mg/m ³)	RfC		4.00E-02	4.00E-02	NA	NA		
Chemical Properties:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S		2.06E+02	2.06E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc		1.77E-02	1.77E-02	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr		7.24E-01	7.24E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs		7.24E-01	7.24E-01				
Diffusivity in air	(cm ² /s)	Dair		5.05E-02	5.05E-02	NA	NA		
Diffusivity in water	(cm ² /s)	Dwater		9.46E-06	9.46E-06	NA	NA		
Building Characteristics:									
<input type="checkbox"/> Select Building Assumptions <input checked="" type="radio"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available) <input type="checkbox"/> Specify Qsoil and Qbuilding separately; calculate ratio									
Building Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting	Bldg_Setting	Commercial	Commercial						
Foundation type	Found_Type	Slab-on-grade	Slab-on-grade						
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.1 - 2.44	NA			
Foundation thickness	(m)	Lf	0.20	0.20	0.1 - 0.25	NA			
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00			
Enclosed space floor area	(m ²)	Abf	140.00	1500.00	80-1000	NA			
Enclosed space mixing height	(m)	Hb	3.00	3.00	2.13 - 3.05	NA			
Indoor air exchange rate	(l / hr)	ach	1.50	1.50	.3-4.1	NA			
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24			
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	6750.00	NA	0.30			
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	20.25	NA	NA			

Model Input

Site Name/Run Number:

TSC-02

Chemical Name: Tetrachloroethylene
CAS No. 127-18-4

Depth below grade to soil gas sample: 1.26 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Sandy Clay					
Stratum A thickness (from surface)	(m)	hSA	1.26					
Stratum A total porosity	(-)	nSA	0.400	0.385	NA	0.20	WARNING	Value is different from default value; please justify.
Stratum A water-filled porosity	(-)	nwSA	0.213	0.197	0.117 - 0.28	0.25	WARNING	Value is different from default value; please justify.
Stratum A bulk density	(g/cm ³)	rhoSA	1.600	1.630	NA	0.05	WARNING	Value is different from default value; please justify.
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC						
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-06	NA	NA	WARNING	Value is different from default value; please justify.
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA		
Exposure Scenario		Scenario	Commercial	Commercial				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	25	25	NA	NA		
Exposure duration	(yrs)	ED	25	25	NA	NA		
Exposure frequency	(days/yr)	EF	250	250	NA	NA		
Exposure time	(hrs/24 hrs)	ET	8	8	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic compounds

Model Output		Site Name/Run Number:		TSC-02	Range is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature.													
Chemical Name: Tetrachloroethylene CAS No. 127-18-4																		
Source to Indoor Air Attenuation Factor		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment									
Soil gas to indoor air attenuation coefficient	(-)	alpha		9.3E-05	4.9E-05 - 9.5E-05	9.7E-05	5.0E-05 - 1.0E-04	WARNING	Please review warning messages									
Predicted Indoor Air Concentration		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment									
Indoor air concentration due to vapor intrusion	(ug/m3) (ppbv)	Cia		0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	WARNING	Please review warning messages									
Predicted Vapor Conc. Beneath Foundation		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment									
Subslab vapor concentration	(ug/m3) (ppbv)	Css		0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00											
Diffusive Transport Upward Through Vadose Zone		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment									
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA		1.2E-03	-	1.3E-03	-											
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB		-	-	-	-											
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC		-	-	-	-											
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	DeffT		1.2E-03	-	1.3E-03	-											
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag											
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	9.6E-05	-	1.0E-04	-	-											
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	5.9E+03	2.0E+02 - 9.9E+04	5.6E+03	1.9E+02 - 9.4E+04	-											
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02	-											
Interpretation		Concentration versus Depth Profile																
Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process.		<p>The graph plots Soil Gas Concentration (ug/m3) on the x-axis (0.0E+00 to 1.2E+00) against Depth (meter) on the y-axis (0.0 to 1.2). A single data point is labeled "Measured" at approximately (0.9, 0.05).</p> <table border="1"> <caption>Data from Concentration versus Depth Profile</caption> <thead> <tr> <th>Depth (meter)</th> <th>Soil Gas Concentration (ug/m3)</th> </tr> </thead> <tbody> <tr> <td>0.9</td> <td>0.05</td> </tr> </tbody> </table>										Depth (meter)	Soil Gas Concentration (ug/m3)	0.9	0.05			
Depth (meter)	Soil Gas Concentration (ug/m3)																	
0.9	0.05																	
Critical Parameters																		
Hb, Ls, DeffT, ach																		
Non-Critical Parameters																		
Qsoil_Qb, Lf, DeffA, eta																		

Please check WARNING or ERROR flags

Model Output		Site Name/Run Number: TSC-02							
Chemical Name: Tetrachloroethylene		CAS No. 127-18-4							
Risk Calculations		Units	Symbol	Value	Range	Default	Range	Flag	Comment
Risk-Based Target Screening Levels	Scenario: Commercial								
Target risk for carcinogens	(-)		Target_CR	1E-05	-	1E-06	-		
Target hazard quotient for noncarcinogens	(-)		Target_HQ	1	-	1	-		
Target indoor air concentration	(ug/m3)		Target_IA	1.75E+02	-	4.72E+01	-		Target indoor air concentration based on non-cancer toxicity (reference concentration)
Target soil gas concentration	(ppbv) (ug/m3)		Target_SV	2.58E+01 1.89E+06	1.8E+06 - 3.6E+06	6.96E+00 4.85E+05	4.7E+05 - 9.4E+05		
Incremental Risk Estimates									
Incremental cancer risk from vapor intrusion	(-)		Cancer_Risk	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		
Hazard quotient from vapor intrusion	(-)		HQ	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

Source Characteristics:				Tetrachloroethylene	Trichloroethylene
Chemical:	Units	Symbol	Value	Value	
Source medium		Source	Exterior Soil Gas	Exterior Soil Gas	
Soil gas concentration	(ug/m3)	Cmedium	1700000	110000	
Depth below grade to soil gas sample	(m)	Ls	1.26	1.26	
Average vadose zone temperature	(°C)	Ts	25	25	
Calc: Source vapor concentration	(ug/m3)	Cs	1700000	110000	
Calc: % of pure component saturated vapor concentration	(%)	%Sat	1.030%	0.023%	
Chemical Name		Chem	Tetrachloroethylene	Trichloroethylene	
CAS No.		CAS	127-18-4	79-01-6	
Toxicity Factors					
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07	see note	
Mutagenic compound		Mut	No	Yes	
Reference concentration	(ug/m ³)	RfC	4.00E-02	2.00E-03	
Chemical Properties:			Value	Value	
Pure component water solubility	(mg/L)	S	2.06E+02	1.28E+03	
Henry's Law Constant @ 25°C	(atm·m ⁻³ /mol)	Hc	1.77E-02	9.85E-03	
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01	4.03E-01	
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01	4.03E-01	
Diffusivity in air	(cm ² /s)	Dair	5.05E-02	6.87E-02	
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06	1.02E-05	
Building Characteristics:			Value	Value	
Building setting		Bldg_Setting	Commercial	Commercial	
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade	
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	
Foundation thickness	(m)	Lf	0.20	0.20	
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	
Enclosed space floor area	(m ²)	Ab	140.00	140.00	
Enclosed space mixing height	(m)	Hb	3.00	3.00	
Indoor air exchange rate	(1/hr)	ach	1.50	1.50	
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	630.00	
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	1.89	

Vadose zone characteristics:	Units	Symbol	Value	Value
Stratum A (Top of soil profile):				
Stratum A SCS soil type				
Stratum A thickness (from surface)	(m)	SCS_A	Sandy Clay	Sandy Clay
Stratum A total porosity	(-)	hSA	1.26	1.26
Stratum A water-filled porosity	(-)	nSA	0.400	0.400
Stratum A bulk density	(g/cm ³)	nwSA	0.213	0.213
		rhoSA	1.600	1.600
Stratum B (Soil layer below Stratum A):				
Stratum B SCS soil type				
Stratum B thickness	(m)	SCS_B	Not Present	Not Present
Stratum B total porosity	(-)	hSB		
Stratum B water-filled porosity	(-)	nSB		
Stratum B bulk density	(g/cm ³)	nwSB		
		rhoSB		
Stratum C (Soil layer below Stratum B):				
Stratum C SCS soil type				
Stratum C thickness	(m)	SCS_C	Not Present	Not Present
Stratum C total porosity	(-)	hSC		
Stratum C water-filled porosity	(-)	nSC		
Stratum C bulk density	(g/cm ³)	nwSC		
		rhoSC		
Stratum containing soil gas sample				
Stratum A, B, or C		src_soil	Stratum A	Stratum A

Exposure Parameters:	Units	Symbol	Value	Value
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-05
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1
Exposure Scenario		Scenario	Commercial	Commercial
Averaging time for carcinogens	(yrs)	ATc	70	70
Averaging time for non-carcinogens	(yrs)	ATnc	25	25
Exposure duration	(yrs)	ED	25	25
Exposure frequency	(days/yr)	EF	250	250
Exposure time	(hrs/24 hrs)	ET	8	8
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Value
Soil gas to indoor air attenuation coefficient	(-)	alpha	9.3E-05	1.2E-04
Range			4.9E-05 - 9.5E-05	5.7E-05 - 1.3E-04
Predicted Indoor Air Concentration				
Indoor air concentration due to vapor intrusion				
(ug/m ³)	Cia	1.6E+02	1.4E+01	
	Range	8.3E+01 - 1.6E+02	6.2E+00 - 1.4E+01	
(ppbv)	Cia	2.3E+01	2.6E+00	
	Range	1.2E+01 - 2.4E+01	1.2E+00 - 2.7E+00	
Predicted Vapor Concentration Beneath the Foundation				
Subslab vapor concentration				
(ug/m ³)	Css	5.3E+04	4.6E+03	
	Range	3.2E+03 - 8.3E+05	2.9E+02 - 6.2E+04	
(ppbv)	Css	7.7E+03	8.5E+02	
	Range	4.8E+02 - 1.2E+05	5.3E+01 - 1.2E+04	

Diffusive Transport Upward Through Vadose Zone			Value	Value
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA	1.2E-03	1.6E-03
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB		
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC		
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	DeffT	1.2E-03	1.6E-03

Critical Parameters			Value	Value
α for diffusive transport from source to building with	(-)	A_Param	9.6E-05	1.3E-04
Pe (Peclet Number) for transport through the foundation	(-)	B_Param	5.9E+03	4.4E+03
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	3.0E-03

<u>Interpretation</u>		
		Advection is the dominant mechanism across the foundation. Diffusion through soil is the overall rate limiting process.

<u>Critical Parameters</u>		
	Hb, Ls, DeffT, ach	Hb, Ls, DeffT, ach

<u>Non-Critical Parameters</u>		
	Qsoil_Qb, Lf, DeffA, eta	Qsoil_Qb, Lf, DeffA, eta

Risk Calculations	Units	Symbol	Value	Value
Risk-Based Target Screening Levels				
Target risk for carcinogens	(-)	Target_CR	1E-05	1E-05
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	1
Target indoor air concentration	(ug/m ³)	Target_IA	1.75E+02	2.05E+01
	(ppbv)	Target_IA	2.58E+01	3.82E+00
Target soil gas concentration	(ug/m ³)	Target_SV	1.89E+06	1.64E+05
Incremental Risk Estimates				
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	3.34E-06	1.78E-05
	Range		1.8E-06 - 3.4E-06	8.1E-06 - 1.9E-05
Hazard quotient from vapor intrusion	(-)	HQ	0.899034474	1.565756738
	Range		4.7E-01 - 9.3E-01	7.1E-01 - 1.6E+00

Model Input

Site Name/Run Number:

TSC-02

Note:

- Yellow highlighted cells indicate parameters that typically are changed or must be inputted by the user.
- Dotted outline cells indicate default values that may be changed with justification.
- Toxicity values are taken from Regional Screening Level tables. These tables are updated semi-annually and may not reflect the most current toxicity information.

[Use English / Metric Converter](#)

Source Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Source medium		Source		Exterior Soil Gas					
Soil gas concentration	(ug/m3)	Cmedium				NA			Please enter a value for Cmedium
Depth below grade to soil gas sample	(m)	Ls		1.26		Vary - 50	NA		
Average vadose zone temperature	(°C)	Ts		25	25	3-30			
Calc: Source vapor concentration	(ug/m3)	Cs		0					
Calc: % of pure component saturated vapor concentration	(%)	%Sat		0.000%					
Chemical:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Chemical Name		Chem		Tetrachloroethylene					
CAS No.		CAS		127-18-4					
Toxicity Factors									
Unit risk factor	(ug/m ³) ⁻¹	IUR		2.60E-07	2.60E-07	NA	NA		
Mutagenic compound		Mut		No		NA	NA		
Reference concentration	(mg/m ³)	RfC		4.00E-02	4.00E-02	NA	NA		
Chemical Properties:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Pure component water solubility	(mg/L)	S		2.06E+02	2.06E+02	NA	NA		
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc		1.77E-02	1.77E-02	NA	NA		
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr		7.24E-01	7.24E-01				
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs		7.24E-01	7.24E-01				
Diffusivity in air	(cm ² /s)	Dair		5.05E-02	5.05E-02	NA	NA		
Diffusivity in water	(cm ² /s)	Dwater		9.46E-06	9.46E-06	NA	NA		
Building Characteristics:									
Select Building Assumptions									
<input checked="" type="radio"/> Use ratio for Qsoil/Qbuilding (recommended if no site specific data available)									
<input type="checkbox"/> Specify Qsoil and Qbuilding separately; calculate ratio									
Building Characteristics:		Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Building setting		Bldg_Setting	Commercial	Commercial	Commercial				
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade					
Depth below grade to base of foundation	(m)	Lb	0.20	0.20	0.1 - 2.44	NA			
Foundation thickness	(m)	Lf	0.20	0.20	0.1 - 0.25	NA			
Fraction of foundation area with cracks	(-)	eta	0.001	0.001	0.00019-0.0019	1.00			
Enclosed space floor area	(m ²)	Abf	140.00	1500.00	80-1000	NA			
Enclosed space mixing height	(m)	Hb	3.00	3.00	2.13 - 3.05	NA			
Indoor air exchange rate	(l / hr)	ach	1.50	1.50	.3-4.1	NA			
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030	0.0001 - 0.05	1.24			
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	6750.00	NA	0.30			
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	20.25	NA	NA			

Model Input

Site Name/Run Number:

TSC-02

Chemical Name: Tetrachloroethylene
CAS No. 127-18-4

Depth below grade to soil gas sample: 1.26 meters

Vadose zone characteristics:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Stratum A (Top of soil profile):								
Stratum A SCS soil type		SCS_A	Sand					
Stratum A thickness (from surface)	(m)	hSA	1.26					
Stratum A total porosity	(-)	nSA	0.375	0.375	NA	0.20		
Stratum A water-filled porosity	(-)	nwSA	0.054	0.054	0.053 - 0.055	0.25		
Stratum A bulk density	(g/cm ³)	rhoSA	1.660	1.660	NA	0.05		
Stratum B (Soil layer below Stratum A):								
Stratum B SCS soil type		SCS_B	Not Present					
Stratum B thickness	(m)	hSB						
Stratum B total porosity	(-)	nSB			NA	NA		
Stratum B water-filled porosity	(-)	nwSB			NA	NA		
Stratum B bulk density	(g/cm ³)	rhoSB			NA	NA		
Stratum C (Soil layer below Stratum B):								
Stratum C SCS soil type		SCS_C	Not Present					
Stratum C thickness	(m)	hSC						
Stratum C total porosity	(-)	nSC			NA	NA		
Stratum C water-filled porosity	(-)	nwSC			NA	NA		
Stratum C bulk density	(g/cm ³)	rhoSC			NA	NA		
Stratum containing soil gas sample								
Stratum A, B, or C		src_soil	Stratum A					
					NA	NA		
					NA	NA		
					NA	NA		
Exposure Parameters:	Units	Symbol	Value	Default	Potential Span	CV	Flag	Comment
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-06	NA	NA		
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1	NA	NA	WARNING	Value is different from default value; please justify.
Exposure Scenario		Scenario	Commercial	Commercial				
Averaging time for carcinogens	(yrs)	ATc	70	70	NA	NA		
Averaging time for non-carcinogens	(yrs)	ATnc	25	25	NA	NA		
Exposure duration	(yrs)	ED	25	25	NA	NA		
Exposure frequency	(days/yr)	EF	250	250	NA	NA		
Exposure time	(hrs/24 hrs)	ET	8	8	NA	NA		
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72	NA	NA	NOTE	MMOAF not relevant for non-mutagenic compounds

Model Output		Site Name/Run Number:		TSC-02	Range is based on the reasonable range of Qsoil/Qbuilding values, as reported in the literature.																							
Chemical Name: Tetrachloroethylene CAS No. 127-18-4																												
Source to Indoor Air Attenuation Factor		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment																			
Soil gas to indoor air attenuation coefficient	(-)	alpha		5.4E-04	8.7E-05 - 6.5E-04	5.2E-04	8.6E-05 - 6.2E-04	WARNING	Please review warning messages																			
Predicted Indoor Air Concentration		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment																			
Indoor air concentration due to vapor intrusion	(ug/m3) (ppbv)	Cia		0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	WARNING	Please review warning messages																			
Predicted Vapor Conc. Beneath Foundation		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment																			
Subslab vapor concentration	(ug/m3) (ppbv)	Css		0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00	0.0E+00 0.0E+00	0.0E+00 - 0.0E+00 0.0E+00 - 0.0E+00																					
Diffusive Transport Upward Through Vadose Zone		Units	Symbol	Value	Range	Default	Default Range	Flag	Comment																			
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA		8.2E-03	-	8.2E-03	-																					
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB		-	-	-	-																					
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC		-	-	-	-																					
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	DeffT		8.2E-03	-	8.2E-03	-																					
Critical Parameters		Symbol	Value	Range	Default	Default Range	Flag																					
α for diffusive transport from source to building with dirt floor foundation	(-)	A_Param	6.6E-04	-	6.3E-04	-	-																					
Pe (Peclet Number) for transport through the foundation (advection / diffusion)	(-)	B_Param	8.6E+02	2.9E+01 - 1.4E+04	9.0E+02	3.0E+01 - 1.5E+04	-																					
α for convective transport from subslab to building	(-)	C_Param	3.0E-03	1.0E-04 - 5.0E-02	3.0E-03	1.0E-04 - 5.0E-02	-																					
Interpretation		Concentration versus Depth Profile																										
Advection is the dominant mechanism across the foundation. Diffusion through soil and advection through foundation both control intrusion.		<p>The graph plots Soil Gas Concentration (ug/m3) on the x-axis (0.0E+00 to 1.2E+00) against Depth (meter) on the y-axis (0.0 to 1.2). The data series is labeled "Measured". The concentration remains near zero until approximately 0.8 meters depth, then rises sharply to about 1.0 ug/m3 at 1.2 meters depth.</p> <table border="1"> <caption>Data points estimated from the graph</caption> <thead> <tr> <th>Depth (m)</th> <th>Concentration (ug/m3)</th> </tr> </thead> <tbody> <tr><td>0.0</td><td>0.0</td></tr> <tr><td>0.2</td><td>0.0</td></tr> <tr><td>0.4</td><td>0.0</td></tr> <tr><td>0.6</td><td>0.0</td></tr> <tr><td>0.8</td><td>0.0</td></tr> <tr><td>1.0</td><td>0.0</td></tr> <tr><td>1.2</td><td>1.0</td></tr> </tbody> </table>											Depth (m)	Concentration (ug/m3)	0.0	0.0	0.2	0.0	0.4	0.0	0.6	0.0	0.8	0.0	1.0	0.0	1.2	1.0
Depth (m)	Concentration (ug/m3)																											
0.0	0.0																											
0.2	0.0																											
0.4	0.0																											
0.6	0.0																											
0.8	0.0																											
1.0	0.0																											
1.2	1.0																											
Critical Parameters																												
Hb, Ls, DeffT, ach, Qsoil_Qb																												
Non-Critical Parameters																												
Lf, DeffA, eta																												

Please check WARNING or ERROR flags

Model Output		Site Name/Run Number: TSC-02							
Chemical Name: Tetrachloroethylene		CAS No. 127-18-4							
Risk Calculations		Units	Symbol	Value	Range	Default	Range	Flag	Comment
Risk-Based Target Screening Levels	Scenario: Commercial								
Target risk for carcinogens	(-)		Target_CR	1E-05	-	1E-06	-		
Target hazard quotient for noncarcinogens	(-)		Target_HQ	1	-	1	-		
Target indoor air concentration	(ug/m3)		Target_IA	1.75E+02	-	4.72E+01	-		Target indoor air concentration based on non-cancer toxicity (reference concentration)
	(ppbv)			2.58E+01	-	6.96E+00	-		
Target soil gas concentration	(ug/m3)		Target_SV	3.25E+05	2.7E+05 - 2.0E+06	9.08E+04	7.6E+04 - 5.5E+05		
Incremental Risk Estimates									
Incremental cancer risk from vapor intrusion	(-)		Cancer_Risk	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		
Hazard quotient from vapor intrusion	(-)		HQ	0.00E+00	0.0E+00 - 0.0E+00	0.00E+00	0.0E+00 - 0.0E+00		

Table of Inputs and Outputs for Multiple Chemicals

Note: Parameters other than the chemical concentration must be entered in the MODEL sheet and must be the same for all chemicals. Warnings and errors are displayed in only on the MODEL sheet.

Source Characteristics:	Units	Symbol	Tetrachloroethylene	Trichloroethylene
			Value	Value
Source medium		Source	Exterior Soil Gas	Exterior Soil Gas
Soil gas concentration	(ug/m3)	Cmedium	1700000	110000
Depth below grade to soil gas sample	(m)	Ls	1.26	1.26
Average vadose zone temperature	(°C)	Ts	25	25
Calc: Source vapor concentration	(ug/m3)	Cs	1700000	110000
Calc: % of pure component saturated vapor concentration	(%)	%Sat	1.030%	0.023%
Chemical:	Units	Symbol	Value	Value
Chemical Name		Chem	Tetrachloroethylene	Trichloroethylene
CAS No.		CAS	127-18-4	79-01-6
Toxicity Factors				
Unit risk factor	(ug/m ³) ⁻¹	IUR	2.60E-07	see note
Mutagenic compound		Mut	No	Yes
Reference concentration	(ug/m ³)	RfC	4.00E-02	2.00E-03
Chemical Properties:	Units	Symbol	Value	Value
Pure component water solubility	(mg/L)	S	2.06E+02	1.28E+03
Henry's Law Constant @ 25°C	(atm-m ³ /mol)	Hc	1.77E-02	9.85E-03
Calc: Henry's Law Constant @ 25°C	(dimensionless)	Hr	7.24E-01	4.03E-01
Calc: Henry's Law Constant @ system temperature	(dimensionless)	Hs	7.24E-01	4.03E-01
Diffusivity in air	(cm ² /s)	Dair	5.05E-02	6.87E-02
Diffusivity in water	(cm ² /s)	Dwater	9.46E-06	1.02E-05
Building Characteristics:	Units	Symbol	Value	Value
Building setting		Bldg_Setting	Commercial	Commercial
Foundation type		Found_Type	Slab-on-grade	Slab-on-grade
Depth below grade to base of foundation	(m)	Lb	0.20	0.20
Foundation thickness	(m)	Lf	0.20	0.20
Fraction of foundation area with cracks	(-)	eta	0.001	0.001
Enclosed space floor area	(m ²)	Ab	140.00	140.00
Enclosed space mixing height	(m)	Hb	3.00	3.00
Indoor air exchange rate	(1/hr)	ach	1.50	1.50
Qsoil/Qbuilding	(-)	Qsoil_Qb	0.0030	0.0030
Calc: Building ventilation rate	(m ³ /hr)	Qb	630.00	630.00
Calc: Average vapor flow rate into building	(m ³ /hr)	Qsoil	1.89	1.89

Vadose zone characteristics:	Units	Symbol	Value	Value
Stratum A (Top of soil profile):				
Stratum A SCS soil type		SCS_A	Sand	Sand
Stratum A thickness (from surface)	(m)	hSA	1.26	1.26
Stratum A total porosity	(-)	nSA	0.375	0.375
Stratum A water-filled porosity	(-)	nwSA	0.054	0.054
Stratum A bulk density	(g/cm ³)	rhoSA	1.660	1.660
Stratum B (Soil layer below Stratum A):				
Stratum B SCS soil type		SCS_B	Not Present	Not Present
Stratum B thickness	(m)	hSB		
Stratum B total porosity	(-)	nSB		
Stratum B water-filled porosity	(-)	nwSB		
Stratum B bulk density	(g/cm ³)	rhoSB		
Stratum C (Soil layer below Stratum B):				
Stratum C SCS soil type		SCS_C	Not Present	Not Present
Stratum C thickness	(m)	hSC		
Stratum C total porosity	(-)	nSC		
Stratum C water-filled porosity	(-)	nwSC		
Stratum C bulk density	(g/cm ³)	rhoSC		
Stratum containing soil gas sample				
Stratum A, B, or C		src_soil	Stratum A	Stratum A

Exposure Parameters:	Units	Symbol	Value	Value
Target risk for carcinogens	(-)	Target_CR	1.00E-05	1.00E-05
Target hazard quotient for non-carcinogens	(-)	Target_HQ	1	1
Exposure Scenario		Scenario	Commercial	Commercial
Averaging time for carcinogens	(yrs)	ATc	70	70
Averaging time for non-carcinogens	(yrs)	ATnc	25	25
Exposure duration	(yrs)	ED	25	25
Exposure frequency	(days/yr)	EF	250	250
Exposure time	(hrs/24 hrs)	ET	8	8
Mutagenic mode-of-action factor	(yrs)	MMOAF	72	72

Source to Indoor Air Attenuation Factor	Units	Symbol	Value	Value
Soil gas to indoor air attenuation coefficient	(-)	alpha	5.4E-04	6.9E-04
		Range	8.7E-05 - 6.5E-04	9.0E-05 - 8.8E-04
Predicted Indoor Air Concentration				
Indoor air concentration due to vapor intrusion	(ug/m ³)	Cia	9.2E+02	7.6E+01
		Range	1.5E+02 - 1.1E+03	9.9E+00 - 9.7E+01
	(ppbv)	Cia	1.4E+02	1.4E+01
		Range	2.2E+01 - 1.6E+02	1.8E+00 - 1.8E+01
Predicted Vapor Concentration Beneath the Foundation				
Subslab vapor concentration	(ug/m ³)	Css	3.1E+05	2.5E+04
		Range	2.2E+04 - 1.5E+06	1.9E+03 - 9.9E+04
	(ppbv)	Css	4.5E+04	4.7E+03
		Range	3.3E+03 - 2.2E+05	3.6E+02 - 1.8E+04

Diffusive Transport Upward Through Vadose Zone		Value	Value
Effective diffusion coefficient through Stratum A	(cm ² /sec)	DeffA	8.2E-03
Effective diffusion coefficient through Stratum B	(cm ² /sec)	DeffB	1.1E-02
Effective diffusion coefficient through Stratum C	(cm ² /sec)	DeffC	
Effective diffusion coefficient through unsaturated zone	(cm ² /sec)	DeffT	8.2E-03
			1.1E-02

Critical Parameters		Value	Value
α for diffusive transport from source to building with	(-)	A_Param	6.6E-04
Pe (Peclet Number) for transport through the foundation	(-)	B_Param	8.6E+02
α for convective transport from subslab to building	(-)	C_Param	3.0E-03
			3.0E-03

Interpretation		Advection is the dominant mechanism across the foundation.	
		Diffusion through soil and advection through foundation both control intrusion.	

Critical Parameters		Hb, Ls, DeffT, ach, Qsoil_I Hb, Ls, DeffT, ach, Qsoil_Qb	

Non-Critical Parameters		Lf, DeffA, eta	Lf, DeffA, eta

Risk Calculations	Units	Symbol	Value	Value
Risk-Based Target Screening Levels				
Target risk for carcinogens	(-)	Target_CR	1E-05	1E-05
Target hazard quotient for noncarcinogens	(-)	Target_HQ	1	1
Target indoor air concentration	(ug/m ³)	Target_IA	1.75E+02	2.05E+01
	(ppbv)	Target_IA	2.58E+01	3.82E+00
Target soil gas concentration	(ug/m ³)	Target_SV	3.25E+05	2.98E+04
Incremental Risk Estimates				
Incremental cancer risk from vapor intrusion	(-)	Cancer_Risk	1.94E-05	9.83E-05
		Range	3.1E-06 - 2.3E-05	1.3E-05 - 1.3E-04
Hazard quotient from vapor intrusion	(-)	HQ	5.232010231	8.651396889
		Range	8.4E-01 - 6.3E+00	1.1E+00 - 1.1E+01



ATTACHMENT C

Attachment C
Tara Shopping Center, 8564 Tara Boulevard, Jonesboro, GA
Voluntary Remediation Program (HSI 10798)

Professional Service	Date	Hours	Description
Professional Engineer			
Jonathan Waddell, PE	1/3/2018	1.5	Brief review of data, Alterman call regarding vapor intrusion and path forward
	1/5/2018	1.5	Review of Alterman VI Results , Alterman call on VI and path forward
	1/8/2018	1.5	Prep for team call and review of data , call with Ashland
	1/11/2018	0.5	Internal call to discuss VI results
	1/17/2018	0.5	Call with Kris Spikes and follow-up with T. Davis regarding VI results and confirmation sampling.
	2/2/2018	0.5	Calls with K. Spikes and J. Reid regarding EPD meeting - VRP Status
	2/7/2018	0.5	Discussion with K. Spikes regarding GAEPD meeting - Brownfields vs. VRP
	2/9/2018	0.5	Call with T. Davis regarding VI confirmation data
	2/12/2018	1	Confirmation VI sampling call , PM Meeting
	2/13/2018	0.5	Call with T. Davis on SVI Memo - text for internal use and final SVI Report
	2/14/2018	1	Talk with T. Davis regarding VI memo, review of DRAFT VI Memo, call with K. Spikes
	2/22/2018	1	Review of J&E model results, discussion with T. Davis, email to K. Spikes
	3/1/2018	0.5	Talk with T. Davis re: VI scope on Tara Retail Shopping Center
	3/6/2018	0.5	Talk with T. Davis regarding VI tasks, call with T. Davis regarding fittings
	3/7/2018	1.5	Review of VI memo/scope of work, call with T. Davis regarding comments to memo
	3/28/2018	0.5	Review of T. Davis screening results and path forward, review of VISL calculator values
	3/29/2018	0.5	Talk with T. Davis re: indoor air VI evaluation, review of proposed USEPA standards
	4/4/2018	1	Screening of IA data, call with K. Spikes
	4/16/2018	0.5	Call with T. Davis re: VI Results, project communications
	4/16/2018	1.5	Review of Woodall Creek report, email communications
	4/17/2018	0.5	Call with T. Davis and K. Spikes regarding VI evaluation
	4/17/2018	0.5	Discussion with K. Spikes re: Woodall Creek study results
	4/20/2018	0.5	Call with G. Long and K. Spikes re: Woodall Creek study
	4/24/2018	1	Ashland Reserve Training
	4/30/2018	0.5	Email to K. Spikes regarding surface water
	5/3/2018	1	VI Talk with Alterman team, follow-up communications
	5/11/2018	1	Review of Scope of Work, discussion with K. Spikes
	5/15/2018	1.5	Review of Alterman reserves, discussion with K. Spikes