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ENVIRONMENT

Ms. Jeannette DeBartolomeo
Oil Control Program
Maryland Department of Environment
1800 Washington Boulevard
Baltimore, MD 21230

Subject:
Fourth Quarter 2015 Groundwater Monitoring Report
Former Exxon Facility #14489
285 Old Bayview Road
North East, Cecil County, Maryland
MDE Case No. 1986-1205-CE

Date: 14 December 2015

Contact:
Hillary Goodell

Phone:
919-415-2268

Email:
hillary.goodell@arcadis-us.com

Our ref:
B0085851.0010

Dear Ms. DeBartolomeo:

ARCADIS U.S. (ARCADIS), on behalf of ExxonMobil Environmental Services Company (EMES) on behalf ExxonMobil Corporation (ExxonMobil), is pleased to submit the Groundwater Monitoring Report (GMR) for activities performed during Fourth Quarter 2015 at the Inactive Exxon Station #14489, located at 285 Old Bayview Road, North East, Maryland.

Please contact Hillary Goodell of ARCADIS at (919) 415-2268 if you have any questions regarding the information contained in this report.

Sincerely,

ARCADIS U.S., Inc.

Sarah Matteson	Hillary Goodell
Geologist II	Project Manager

Copies:
Mr. Mike Meola, ExxonMobil

Fourth Quarter 2015 Groundwater Monitoring Report
Former Exxon Facility #14489, 285 Old Bayview Road, North East, MD

Regulatory Information

Regulatory Agency:	Maryland Department of the Environment (MDE)
MDE Case Number:	1986-1205-CE
Agency Contact:	Ms. Jeannette DeBartolomeo
Current Case Status:	Quarterly groundwater monitoring and sampling
Reporting Period:	1 October 2015 through 31 December 2015
Last Report:	Third Quarter 2015 Groundwater Monitoring Report, 22 September 2015

General Site Information

ExxonMobil Contact:	Mr. Mike Meola
Consultant Contact:	Ms. Hillary Goodell
Facility Status:	Former retail service station currently operated as an automotive repair facility
Area Property Use:	See Local Area Map (**Figure 1**)
Monitoring Wells:	MW-1A, MW-2A, MW-3A, MW-5A, MW-8, and MW-10 through MW-16 (**Figure 2**)
Injection Wells:	INJ-1, INJ-2, and INJ-3 (**Figure 2**)
Site Geology:	Micaceous clay and silt with sand and gravel

Activities Completed this Period

29 October 2015 – Groundwater Gauging and Sampling

Wells Gauged and Sampled:	MW-1A, MW-2A, MW-3A, MW-5A, MW-8, MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, and MW-16.
Well Gauged Only:	INJ-1, INJ-2, and INJ-3
Liquid Phase Hydrocarbon:	None Detected
Minimum/Maximum Depth to Water:	2.52 feet (MW-8) / 13.98 feet (MW-12)
Groundwater Flow Direction:	Southwest

Groundwater samples were collected on 29 October 2015 and submitted to TestAmerica Laboratories of Nashville, Tennessee for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and fuel oxygenates using Environmental Protection Agency (EPA) Method 8260B and for biogeochemical parameters including sulfate (Method 9056A), nitrate (Method 353.2), and total iron (Method 6010B). Dissolved iron was not analyzed during this sampling event. Nitrate/Nitrite, Iron, and Sulfate were analyzed out of temperature for MW-2A, MW-3A, MW-5A, MW-8, MW-10, MW-13, MW-14, MW-15, and MW-16 due to one of the coolers getting delayed during shipment. Nitrate/Nitrite and Iron for MW1A were also analyzed out of temperature. Please refer to the Case Narrative section of the laboratory report for details. Monitoring well gauging and sampling data are summarized on **Table 1** and depicted on **Figure 3**. No liquid phase hydrocarbon (LPH) was detected during this reporting period. Quality Assurance/Quality Control (QA/QC) samples collected included a duplicate sample (collected from MW-1A), daily rinsate blanks, and trip blanks. The TestAmerica laboratory groundwater analytical reports are attached as **Appendix A**.

29 October 2015 – Potable Well Sampling

The potable well and POET system at 259 Old Bayview Road and the potable well at 261 Old Bayview Road were sampled on 29 October 2015. Results are summarized on **Table 2** and were submitted to the property owners under separate cover.

Groundwater Sampling Results

Analysis of Volatile Organic Compounds

Constituents of concerns (COCs) including benzene, ethylbenzene, methyl tertiary butyl ether (MTBE), and naphthalene were detected at concentrations exceeding MDE Groundwater (GW) Clean-up Standards at one or more wells:

- Benzene was detected at concentrations exceeding the MDE GW standard (5 µg/L) in three samples (MW-1A, MW-2A, and MW-5A) with a maximum concentration of 127 µg/L in the sample collected from MW-2A.

- Ethylbenzene was detected at concentrations exceeding the MDE GW standard (700 µg/L) in two samples (MW-2A and MW-5A) with a maximum concentration of 1,290 µg/L in the sample collected from MW-2A.

- MTBE was detected at concentrations exceeding the MDE GW standard (20 µg/L) in two samples (MW-2A and MW-11) with a maximum concentration of 58.5 µg/L in the sample collected from MW-2A.

- Naphthalene was detected at concentrations exceeding the MDE GW standard (0.65 µg/L) in four samples (MW-1A, MW-2A, MW-5A, and MW-11) with a maximum concentration of 250 µg/L in the sample collected from MW-5A.

Analysis of Monitored Natural Attenuation Parameters

Geochemical indicator parameters can provide an additional line of evidence to document favorable groundwater conditions for ongoing attenuation mechanisms and evaluate the potential biodegradation processes that may be occurring within the impacted area.

Many common groundwater COCs, including benzene, can serve as sources of carbon and/or energy for naturally-occurring bacteria, and biodegradation of organic COCs can occur by both aerobic and anaerobic microbial processes. Bacteria obtain energy for cell production and maintenance by facilitating reduction-oxidation (redox) reactions involving the transfer of electrons from electron donors (*i.e.,* the target substrate or COC) to available electron acceptors. In aerobic environments, oxygen serves as the electron acceptor and becomes reduced while the primary substrate is oxidized. Oxidation of the primary substrate results in its mineralization to harmless byproducts, carbon dioxide and water. In anaerobic environments, other inorganic compounds act as electron acceptors and become reduced while the primary substrate is oxidized. Anaerobic oxidation processes consume these alternate electron acceptors in the following order of preference: nitrate (nitrate reduction), manganese (manganese [IV] reduction), ferric iron (ferric iron reduction), sulfate (sulfate reduction), and carbon dioxide (methanogenesis). The key bacteria involved in anaerobic oxidation are widely distributed in the natural environment. Denitrifying, iron, and sulfate bacteria use nitrate, oxidized iron and manganese, and sulfate as electron acceptors, and subsequently reduce them to nitrite or nitrogen gas, dissolved (ferrous) iron and manganese, and hydrogen sulfide, respectively. Methanogens use carbon dioxide as an electron acceptor, reducing it to methane.

Monitored natural attenuation (MNA) data including biogeochemical samples (sulfate, nitrate, and total iron) and field parameters (pH, conductivity, temperature, dissolved oxygen [DO], and oxygen-reduction potential [ORP]) were collected during the 4th quarter 2015 sampling event. An analysis of the MNA data is as follows:

- DO is the favored electron acceptor used by microorganisms during biodegradation of many forms of organic carbon. When DO is less available, anaerobic biodegradation processes utilize alternate electron acceptors, and groundwater conditions become more reducing. The DO concentration measured in wells where concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A, MW-5A, and MW-11) were less than 0.5 milligrams per liter (mg/L) in all but one well (MW-11 had a concentrations of 2.58 mg/L), while DO measured at many surrounding un-impacted wells was higher. DO concentrations within the impacted area are depleted relative to background DO concentrations and indicate that microbial activity and consumption of oxygen during biodegradation processes is occurring within the plume area and anaerobic groundwater conditions are prevalent in the impacted area.

- Once dissolved oxygen has been depleted, nitrate is used by denitrifying microorganisms under anaerobic conditions as an electron acceptor to oxidize organic carbon (nitrate reduction). During this process, nitrate (NO_3^-) is reduced to nitrite (NO_2^-), which can be further reduced to molecular nitrogen (N_2). Nitrate was detected at concentrations ranging from non-detect in MW-1A, MW-2A, and MW-5A to 4.59 mg/L in MW-12, an un-impacted well. In wells where concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A, MW-5A and MW-11, nitrate levels were non-detect at MW-1A, MW-2A, and MW-5A, and 0.205 mg/L at MW-11. These data indicate that nitrate reduction is occurring within the plume in the impacted areas, suggesting consumption of nitrate to facilitate biodegradation of groundwater COCs. However, the low concentrations in un-impacted (background) wells indicate that this is likely a minor degradation mechanism.

- Iron reduction is an anaerobic redox reaction in which bacteria use ferric iron, Fe(III), as an electron acceptor to facilitate biodegradation of organic compounds in the absence of DO, nitrate, and Mn(IV). When ferric iron is used as an electron acceptor, it is reduced to soluble ferrous iron, Fe(II), resulting in increased concentrations of dissolved iron. Total Iron was detected at concentrations ranging from 2.79 mg/L at MW-8 to 32.4 mg/L at MW-12. In wells where concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A, MW-5A, MW-11, and MW-13), total iron levels were detected at 9.38 mg/L (MW-1A), 18.6 mg/L (MW-2A), 10.1 mg/L (MW-5A), and 7.52 mg/L (MW-11). Dissolved iron was not analyzed during this event. Based on data from previous sampling events, the presence of dissolved iron at higher concentrations in the wells where concentrations of COCs remain above the MDE GW Clean-up Standards compared to wells in un-impacted areas, along

with depleted DO and nitrate, suggest that iron reduction is occurring in these areas.

- Sulfate reduction is an anaerobic redox reaction in which sulfate is used as an electron acceptor to oxidize organic carbon. When sulfate is used as an electron acceptor (in the absence of DO, nitrate, Mn[IV], and Fe[III]), it is reduced to sulfide. Sulfate reduction results in decreased sulfate concentrations relative to background and indicates a strongly reducing groundwater environment. Sulfate was detected at concentrations ranging from non-detect (less than 1 milligram per liter [(mg/L)]) in MW-1A, MW-2A, and MW-5A to 61.5 mg/L in MW-3A. In wells where concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A, MW-5A, and MW-11), sulfate levels ranged from non-detect at MW-1A, MW-2A, and MW-5A to 5.96 mg/L at MW-11. The presence of lower sulfate concentrations in impacted wells relative to un-impacted wells (background) at this site indicate that sulfate is being utilized and is facilitating anaerobic degradation of organic carbon via sulfate reduction.

<u>Other Field Parameters</u>

- pH levels were detected at concentrations ranging from 5.31 at MW-15 to 7.60 at MW-11. The pH has an effect on microbial populations and activity with a generally preferred range of 6 to 8.

- Conductivity levels were detected at concentrations ranging from 0.210 microSiemens per centimeter (mS/cm) at MW-11 to 2.695 mS/cm at MW-10 and were within historical ranges, indicating the samples were representative of the target saturated zone.

- Temperature of the groundwater ranged from 16.21 degrees Celsius (°C) at MW-15 to 20.43°C at MW-8 and were within historical ranges. Temperature affects the metabolic rate of bacteria and the solubility of geochemical species including oxygen.

- ORP was detected at concentrations ranging from -233.0 millivolts (mV) at MW-1A to 164.4.7 mV at MW-15. The ORP is a measure of the electron activity and influences rates of biodegradation. The ORP values in the impacted wells indicate that biodegradation is occurring through sulfate reduction or methanogenesis.

Summary

The geochemical parameters analyzed in samples collected in October 2015 indicate that oxygen, nitrate, sulfate, and iron reduction are occurring to varying degrees at the Site. Relatively high background concentrations and depletion within the impacted area as well as ORP data indicate that sulfate reduction may be one of the predominant mechanisms. These results provide evidence that microbial activity is contributing to degradation of COC impacts in groundwater. Therefore, hydrocarbon concentrations in the groundwater should decrease over time as residual mass is incorporated into the aquifer and destroyed by microbial activity.

Activities Planned for Next Period (First Quarter 2016)

Activities proposed for the First Quarter 2016 include quarterly groundwater gauging and sampling. All groundwater monitoring wells and injection wells will be gauged to determine the depth to groundwater. Groundwater samples will be collected from wells MW-1A, MW-2A, MW-3A, MW-5A, MW-8, and MW-10 through MW-16 and analyzed for full list VOCs and fuel oxygenates using EPA Method 8260B, sulfate (Method 9056A), nitrate (Method 353.2), and dissolved and total iron (Method 6010B). Field parameters, such as dissolved oxygen and pH, will be recorded as part of the standard sampling protocol. Potable wells will continue to be sampled at 259 and 261 Old Bayview Road properties.

Tables and Figures

Table 1: Groundwater Monitoring and Analytical Data
Table 2: Potable Water Monitoring and Analytical Data
Figure 1: Local Area Map
Figure 2: Site Map
Figure 3: Groundwater Elevation Contours and Analytical Data (29 October 2015)

Appendices

Appendix A: TestAmerica Laboratory Analytical Reports (10-13 November 2015)

Tables

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate (mg/L)	Total Iron (mg/L)	Dissolved Iron (mg/L)	Nitrate / Nitrite (mg/L)	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	--	*20*	--	--	--	--	*0.65*	--	*2,600*	--	--	--	--	--	--	--	
MW-1A	6/1/2005	97.65	5.23	ND	ND	92.42	**560**	**5,770**	**2,360**	8,970	17,660	**156**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	97.65	6.77	ND	ND	90.88	**252**	**2,410**	**2,560**	7,500	12,722	**149**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	97.65	6.82	ND	ND	90.83	**97.7**	**1,260**	**1,720**	4,870	7,948	**114**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	97.65	5.38	ND	ND	92.27	**116**	703	**1,130**	2,880	4,829	**112**	92.2 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	97.65	6.15	ND	ND	91.50	**145**	**1,750**	**1,020**	3,220	6,135	**53.3**	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	97.65	7.02	ND	ND	90.63	**212**	**3,730**	**2,380**	8,180	14,502	**133**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	97.65	4.94	ND	ND	92.71	**216**	**3,280**	**2,270**	7,550	13,316	**510**	<630	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	97.65	6.10	ND	ND	91.55	**201**	**2,970**	**1,520**	5,380	10,071	**593**	<500	<100	<100	<100	**378**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	97.65	7.12	ND	ND	90.53	**151**	**2,300**	**1,410**	4,460	8,321	**561**	<500	<100	<100	59.2 J	**345**	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	97.65	7.12	ND	ND	90.53	**150**	**2,330**	**1,860**	6,030	10,370	**398**	<630	<130	<130	58.9 J	**497**	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	97.65	5.35	ND	ND	92.30	**185**	**2,720**	**1,510**	5,440	9,855	**307**	<500	<100	<100	<100	**375**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	97.65	5.08	ND	ND	92.57	**148**	**2,700**	**1,790**	6,230	10,868	**269**	<630	<130	<130	44.0 J	**402**	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	97.65	6.35	ND	ND	91.30	**101**	**1,460**	**730**	2,760	5,051	**151**	<250	<50	<50	20.1 J	**235**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	97.65	4.80	ND	ND	92.85	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	97.65	5.25	ND	ND	92.40	**62.8**	873	**1,080**	2,830	4,846	**143**	<250	<50	<50	17.2 J	**263**	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	97.65	4.57	ND	ND	93.08	**162**	**2,430**	**1,350**	4,170	8,112	**139**	<250	<50	<50	24.0 J	**355**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	97.65	4.21	ND	ND	93.44	**204**	**3,100**	**1,610**	5,510	10,424	**117**	<630	<130	<130	<130	**369**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	97.65	6.74	ND	ND	90.91	**197**	**2,900**	**1,340**	4,780	9,217	**108**	<630	<130	<130	31.4 J	**225**	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	97.65	6.55	ND	ND	91.10	**51.2**	**1,190**	**1,100**	3,530	5,871	**54.6**	<130	<25	<25	9.0 J	**277**	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	97.65	4.89	ND	ND	92.76	**60.2**	**1,220**	**1,120**	4,440	6,840	**33.8**	40.4	<1	<1	<1	**218**	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	97.65	4.82	ND	ND	92.83	**101**	**1,340**	584	2,140	4,165	**28.2**	<20	<1	<1	7.47	**244**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	97.65	6.48	ND	ND	91.17	**117**	**2,450**	**1,140**	3,970	7,677	**24.4**	<20	<1	<1	<1	**234**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	97.65	5.41	ND	ND	92.24	**57.6**	**1,610**	**1,030**	3,660	6,357.6	**21**	19.1	<1	<1	4.27	**198**	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	97.65	5.03	ND	ND	92.62	**67.5**	**1,490**	**956**	3,210	5,724	13.8	<10	<1	<1	<1	**187**	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	97.65	6.83	ND	ND	90.82	**76.7**	**1,910**	**976**	4,140	7,103	13.6	<50	<5	<5	<5	**155**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	97.65	8.31	ND	ND	89.34	**66 [64]**	**2,180 [2,210]**	**1,080 [1,030]**	3,950 [3,700]	7,276 [7,004]	17.7 [<1]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [<1]	**182 [192]**	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	97.65	8.98	ND	ND	88.67	**41.9**	**1,230**	**1,010**	3,860	6,141.9	**29.1**	11.8	<2	<1	5.72	**249**	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	97.65	5.50	ND	ND	92.15	**63.2**	**1,620**	**1,340**	4,290	7,313	<1	<10	<2	<1	<1	**256**	NS	NS	NS	NS	6.42	0.236	12.22	0.69	-38	
	5/1/2013	97.65	5.21	ND	ND	92.44	**81.3 [77.8]**	**2,130 [1,950]**	**1,290 [1,210]**	4,820 [4,510]	8,321.3 [7,747.8]	6.88 [<1]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [2.59]	**262 [255]**	NS	NS	NS	NS	6.15	0.226	14.17	0.25	-27.2	
	8/6/2013	97.65	4.68	ND	ND	92.97	**92.3 [91.1]**	**1,880 [1,940]**	**973 [1,010]**	3,340 [3,400]	6,285.3 [6,441.1]	6.25 [6.21]	<10 [<10]	<2 [<2]	<1 [<1]	19.3 [<1]	**276 [279]**	NS	NS	NS	NS	5.85	0.232	17.26	1.49	81.9	
	10/3/2013	97.65	5.85	ND	ND	91.80	**90.2 [90.6]**	**1,890 [1,870]**	**925 [925]**	4,010 [4,070]	6,915.2 [6,955.6]	7.44 [7.74]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [<1]	**251 [254]**	NS	NS	NS	NS	5.48	0.239	19.48	0.82	30.4	
	3/6/2014	97.65	4.25	ND	ND	93.40	**47.6 [54.6]**	**1,060 [1,120]**	**689 [731]**	2,740 [2,810]	4,536.6 [4,715.6]	4.70 [4.58]	10.4 [14.3]	<2 [<2]	<1 [<1]	1.61 [1.30]	**161 [179]**	NS	NS	NS	NS	6.26	0.228	13.22	4.08	-54.2	
	6/12/2014	97.65	4.54	ND	ND	93.11	**69.8 [70.6]**	**2,060 [1,760]**	**974 [967]**	4,050 [3,430]	7,153.8 [6,227.6]	<10 [<10]	<100 [<100]	<20 [<20]	<10 [<10]	<10 [<10]	**182 [218]**	NS	NS	NS	NS	6.00	0.216	14.73	0.33	-10.6	
	9/19/2014	97.65	7.27	ND	ND	90.38	**49.5 [51.0]**	**1,460 [1,580]**	**874 [882]**	3,300 [3,460]	5,683.5 [5,973]	<10 [<10]	<100 [<100]	<20 [<20]	<10 [<10]	<10 [<10]	**378 [264]**	<1 [<1]	5.85 [5.35]	4.19 [4.30]	<0.1 [<0.1]	6.06	0.172	18.81	0.28	-139.1	
	11/13/2014	97.65	6.09	ND	ND	91.56	**10.7 [14.3]**	405 [459]	355 [374]	1,400 [1,520]	2,170.7 [2,367.3]	<1 [<1]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [<1]	**54.0 [61.6]**	<1 [<1]	4.41 [4.47]	3.63 [3.58]	<0.1 [<0.1]	6.10	0.227	19.22	3.04	-17.6	
	3/25/2015	97.65	4.38	ND	ND	93.27	**33.4 [32.9]**	743 [762]	517 [539]	2,450 [2,520]	3,743.4 [3,853.9]	<1 [2.34]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [<1]	**133 [133]**	<1 [<1]	9.47 [8.89]	1.11 [0.884]	<0.1 [<0.1]	6.03	0.247	11.98	1.06	-61.3	
	6/25/2015	97.65	4.41	ND	ND	93.24	**53.2 [54.4]**	**1,500 [1,510]**	**714 [724]**	3,180 [3,240]	5,447.2 [5,528.4]	2.31 [2.35]	14.3 [12.6]	<2 [<2]	<1 [<1]	<1 [<1]	**153 [157]**	<1 [<1]	4.94 [5.43]	3.24 [2.43]	<0.1 [<0.1]	6.04	0.263	17.09	1.19	-44.0	
	7/29/2015	97.65	4.94	ND	ND	92.71	**76.7 [70.7]**	**2,310 [2,180]**	**980 [934]**	4,410 [4,210]	7,776.7 [7,770.7]	3.07 [2.86]	<10 [16.7]	<2 [<2]	<1 [<1]	1.36 [1.19]	**183 [189]**	<1 {<1]	6.25 [6.31]	4.68 [4.84]	<0.1 [0.1]	11.32	0.245	17.57	0.18	-185.6	
	10/29/2015	97.65	6.40	ND	ND	91.25	**19.4 [18.1]**	659 [617]	636 [590]	2,460 [2,440]	3,774.4 [3,665.1]	<10 [<10]	<100 [<100]	<20 [<20]	<1 0 [<10]	<10 [<10]	**154 [174]**	<1 [<1]	9.38 [9.21]	--	<0.1 [<0.1]	6.38	0.239	19.51	0.45	-233.0	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-2A	6/1/2005	97.10	4.74	ND	ND	92.36	**1,740**	595	**2,590**	9,200	14,125	**829**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	97.10	5.65	ND	ND	91.45	**1,580**	**2,440**	**2,660**	9,530	16,210	**670**	<630	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	97.10	5.71	ND	ND	91.39	**1,570**	**4,950**	**2,790**	9,990	19,300	**599**	<630	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	97.10	4.35	ND	ND	92.75	**964**	**3,090**	**2,550**	8,730	15,334	**413**	189 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	97.10	5.26	ND	ND	91.84	**456**	788	**2,290**	7,470	11,004	**198**	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	97.10	5.77	ND	ND	91.33	**216**	157	569	1,830	2,772	**86.4**	30.0 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	97.10	4.73	ND	ND	92.37	**747**	529	**1,900**	3,920	7,096	**568**	256 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	97.10	5.66	ND	ND	91.44	**379**	**4,610**	**2,160**	8,620	15,769	**457**	<630	<130	<130	<130	**462**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	97.10	5.57	ND	ND	91.53	**489**	**4,240**	**3,310**	8,760	16,799	**531**	<630	<130	<130	46.4 J	**652**	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	97.10	5.64	5.63	0.01	91.47	**817**	308	**1,770**	5,450	8,345	**624**	<250	<50	<50	55.6	**405**	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	97.10	4.90	ND	ND	92.20	**567**	**1,220**	**1,330**	4,140	7,257	**680**	215 J	<50	<50	51.6	**306**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	97.10	1.82	ND	ND	95.28	**452**	**4,520**	**1,860**	7,870	14,702	**516**	<630	<130	<130	64.0 J	**299**	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	97.10	5.37	ND	ND	91.73	**191**	**1,830**	**1,270**	4,250	7,541	**341**	<250	<50	<50	38.1 J	**316**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	97.10	3.93	ND	ND	93.17	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	97.10	4.51	ND	ND	92.59	**266**	656	**2,530**	7,620	11,072	**371**	<500	<100	<100	48.5 J	**360**	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	97.10	4.36	ND	ND	92.74	**699**	231	**2,340**	4,360	7,630	**532**	<500	<100	<100	55.2 J	**402**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	97.10	4.04	ND	ND	93.06	**858**	**1,070**	**1,720**	2,690	6,338	**538**	156 J	<50	<50	43.4 J	**325**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	97.10	5.10	ND	ND	92.00	**544**	865	**1,590**	5,010	8,009	**430**	<250	<50	<50	54.8	**262**	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	97.10	5.51	ND	ND	91.59	**220**	367	**2,140**	3,980	5,807	**169**	<130	<25	<25	20.2	**223**	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	97.10	4.20	ND	ND	92.90	**147**	702	**1,290**	4,920	7,059	**151**	<20	<1	<1	18.4	**232**	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	97.10	4.40	ND	ND	92.70	**373**	**1,530**	**1,300**	4,050	7,253	**274**	<20	1.07	<1	23.8	**222**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	97.10	5.45	ND	ND	91.65	**316**	850	**1,460**	4,690	7,316	**207**	<200	<10	<10	16.4	**243**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	97.10	4.30	ND	ND	92.80	**309**	466	**1,240**	4,070	6,085	**171**	38.8	<1	<1	16.6	**200**	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	97.10	4.73	ND	ND	92.37	**154**	570	**1,280**	3,580	5,584	**115**	<10	<1	<1	10.4	**201**	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	97.10	5.79	ND	ND	91.31	**216**	443	**1,550**	4,280	6,489	**131**	<50	<5	<5	11.9	**197**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	97.10	6.61	ND	ND	90.49	**221**	512	**1,220**	3,820	5,773	**138**	<10	<2	<1	13.5	**252**	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	97.10	6.93	ND	ND	90.17	**311**	754	**1,000**	3,990	6,055	**179**	41.3	<2	<1	17.3	**187**	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	97.10	4.58	ND	ND	92.52	**128**	858	**1,350**	3,930	6,266	**73.4**	<10	<2	<1	8.71	**181**	NS	NS	NS	NS	6.49	0.360	12.81	3.42	-49	
	5/1/2013	97.10	4.77	ND	ND	92.33	**153**	901	**1,220**	4,170	6,444	**101**	<10	<2	<1	10.3	**199**	NS	NS	NS	NS	6.49	0.328	14.52	0.29	-100.9	
	8/6/2013	97.10	4.18	ND	ND	92.92	**199**	651	**918**	2,510	4,278	**117**	<10	<2	<1	31.9	**179**	NS	NS	NS	NS	6.24	0.349	17.34	0.48	9.8	
	10/3/2013	97.10	4.86	ND	ND	92.24	**259**	**1,080**	**1,210**	4,380	6,929	**133**	<10	<2	<1	11.3	**266**	NS	NS	NS	NS	6.22	0.328	20.25	0.24	-63.4	
	3/6/2014	97.10	3.96	ND	ND	93.14	**124**	372	**1,160**	2,830	4,486	**73.6**	22.2	<2	<1	7.44	**280**	NS	NS	NS	NS	6.71	0.334	11.24	4.37	-95.8	
	6/12/2014	97.10	3.90	ND	ND	93.20	**153**	547	**1,590**	4,190	6,480	**81.4**	<100	<20	<10	<10	**280**	NS	NS	NS	NS	6.37	0.338	15.45	0.31	-66.5	
	9/19/2014	97.10	5.62	ND	ND	91.48	**174**	630	**1,590**	4,450	6,844	**82.1**	<100	<20	<10	<10	**386**	1.76	41.0	5.08	<0.1	6.33	0.319	20.17	0.70	-106.3	
	11/13/2014	97.10	5.16	ND	ND	91.94	**163**	297	**977**	2,670	4,107	**90.8**	21.4	<2	<1	7.78	**128**	<1	14.1	5.07	<0.1	6.46	0.369	18.97	3.17	-77.4	
	3/25/2015	97.10	4.10	ND	ND	93.00	**117**	387	**1,420**	2,870	4,794	**56.2**	<10	<2	<1	5.30	**174**	<1	9.94	1.08	<0.1	6.37	0.315	9.53	2.29	-37.4	
	6/25/2015	97.10	3.92	ND	ND	93.18	**147**	415	**991**	2,450	4,003	**82.0**	31.5	<2	<1	<1	**196**	9,990	11.6	1.46	<0.1	6.28	0.291	20.30	1.59	-52.3	
	7/29/2015	97.10	4.12	ND	ND	92.98	**134**	456	**813**	2,600	4,003	**84.0**	28.2	<2	<1	7.02	**179**	<1	13.1	5.26	<0.1	11.39	0.317	18.00	0.24	-180.9	
	10/29/2015	97.10	4.96	ND	ND	92.14	**127**	368	**1,290**	2,500	4,285	**58.5**	<100	<20	<10	<10	**202**	<1	18.6	--	<0.1	6.64	0.351	18.87	0.52	-188.7	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-3A	6/1/2005	96.99	2.71	ND	ND	94.28	**6.7**	18	31	108	163	19.8	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	96.99	4.55	ND	ND	92.44	**92.0**	23.3	99.9	128	343	**353**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	96.99	2.72	ND	ND	94.27	<1	1.1	5.7	19	26	**47.1**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	96.99	2.06	ND	ND	94.93	3.4	15.2	36.6	126	181	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	96.99	2.45	ND	ND	94.54	**278**	111	325	991	1,705	**17900**	<1,300	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	96.99	2.25	ND	ND	94.74	<1	<1	<1	<1	BRL	**23.2**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	96.99	2.41	ND	ND	94.58	0.32 J	7.5	14.8	57	79.2 J	0.64 J	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	96.99	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	Not accessible
	8/14/2008	96.99	5.57	ND	ND	91.42	<1	<1	<1	<1	BRL	3.7	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	96.99	2.21	ND	ND	94.78	<1	<1	<1	<1	BRL	0.60 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	96.99	2.75	ND	ND	94.24	**28.0**	13.7	2.8	6	50	**67.2**	26.0	<5	<5	2.7 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	96.99	1.30	ND	ND	95.69	**9.6**	7.6	1.8	4	23	**37.2**	21.2 J	<5	<5	1.2 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	96.99	2.83	ND	ND	94.16	0.25 J	<1	<1	<1	0.25 J	1.4	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	96.99	2.10	ND	ND	94.89	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	96.99	1.90	ND	ND	95.09	<1	<1	<1	<1	BRL	3.6	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	96.99	2.45	ND	ND	94.54	<1	<1	<1	<1	BRL	**18.9**	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	96.99	2.26	ND	ND	94.73	**23.8**	14.2	5.2	9	52	**20.9**	7.5 J	<5	<5	0.98 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	96.99	2.85	ND	ND	94.14	<1	<1	<1	<1	BRL	10.2	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	96.99	4.75	ND	ND	92.24	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	96.99	2.14	ND	ND	94.85	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	96.99	2.53	ND	ND	94.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	96.99	5.76	ND	ND	91.23	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	96.99	2.35	ND	ND	94.64	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	96.99	2.71	ND	ND	94.28	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	96.99	3.30	ND	ND	93.69	<1 [<1]	<1 [<1]	<1 [<1]	<3 [<3]	BRL [BRL]	<1 [<1]	<10 [<10]	<1 [<1]	<1 [<1]	<1 [<1]	<5 [<5]	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	96.99	7.62	ND	ND	89.37	<1	<1	<1	<3	BRL	8.07	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	96.99	8.63	ND	ND	88.36	**8.24**	<1	<1	<3	8.24	**33.4**	14.1	<2	<1	1.12	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	96.99	2.48	ND	ND	94.51	1.31	<1	<1	<3	1.31	1.37	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.91	0.535	13.68	4.10	152	
	5/1/2013	96.99	4.36	ND	ND	92.63	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.79	0.437	14.45	2.39	125.8	
	8/6/2013	96.99	2.26	ND	ND	94.73	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.68	0.345	16.84	5.07	273.5	
	10/3/2013	96.99	2.72	ND	ND	94.27	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.96	0.309	18.66	0.45	24.7	
	3/6/2014	96.99	2.46	ND	ND	94.53	<1	<1	1.41	4.29	5.70	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	7.34	0.269	14.17	8.89	42.7	
	6/12/2014	96.99	2.42	ND	ND	94.57	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.59	0.351	15.14	4.28	56.5	
	9/19/2014	96.99	6.08	ND	ND	90.91	<1	<1	<1	<2	BRL	1.16	<10	<2	<1	<1	<5	38.4	0.855	<0.1	0.246	6.49	0.295	17.48	1.02	93.6	
	11/13/2014	96.99	2.53	ND	ND	94.46	<1	<1	2.49	7.05	9.54	<1	<10	<2	<1	<1	<5	43.6	0.217	<0.1	1.34	6.93	0.293	18.72	6.00	-13.7	
	3/25/2015	96.99	2.31	ND	ND	94.68	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	22.0	1.10	<0.1	1.20	7.04	0.357	11.53	7.77	205.9	
	6/25/2015	96.99	2.09	ND	ND	94.90	1.26	<1	<1	<3	1.26	1.75	<10	<2	<1	<1	<5	116	0.736	<0.1	0.722	6.78	0.537	18.47	3.81	99.5	
	7/29/2015	96.99	2.65	ND	ND	94.34	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	97.8	3.19	0.127	0.430	7.04	0.533	16.61	1.95	-133.9	
	10/29/2015	96.99	2.62	ND	ND	94.37	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	61.5	8.42	--	0.896	7.2	0.391	18.52	3.52	-141.9	
MW-4	6/1/2005	97.26	2.55	ND	ND	94.71	**6.9**	3.8	4.7	10.8	26.2	13.8	ND(25)	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/7/2005	97.26	2.77	ND	ND	94.49	2.9	0.81 J	7.6	5.7	17.0 J	5.3	ND(25)	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	5/24/2006	97.26	2.82	ND	ND	94.44	0.38 J	4.0	16.9	48.1	69.4 J	11.8	ND(25)	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	11/7/2006	97.26	2.48	ND	ND	94.78	2.1	2.4	9.3	31.8	45.6	**291**	ND(25)	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	6/21/2007	97.26	2.73	ND	ND	94.53	**22.9**	30.8	21.8	81.1	156.6	**934**	ND(100)	NA	NA	NA	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	
	12/11/2007	97.26	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Monitoring well destroyed.

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-5A	6/1/2005	95.02	2.40	ND	ND	92.62	**132**	**1,360**	**1,670**	7,270	10,432	<10	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	95.02	3.25	ND	ND	91.77	**58.2**	230	**1130**	3,420	4,838	<10	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	95.02	3.72	ND	ND	91.30	**22.4**	144	661	1,840	2,667	<5	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	95.02	2.09	ND	ND	92.93	**136**	868	**1,370**	4,780	7,154	<5	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	95.02	5.35	ND	ND	89.67	**49.7**	460	**929**	2,750	4,189	<5	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	95.02	3.63	ND	ND	91.39	**20.1**	62.3	**831**	2,520	3,433	<10	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	95.02	2.60	ND	ND	92.42	**56.2**	306	**855**	1,940	3,157	<5	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	95.02	4.04	ND	ND	90.98	**38.5**	251	**920**	3,200	4,410	<10	<250	<50	<50	<50	**246**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	95.02	4.32	ND	ND	90.70	**26.0**	139	**766**	2,910	3,841	<5	<130	<25	<25	<25	**242**	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	95.02	2.42	ND	ND	92.60	**111**	856	**1,180**	4,070	6,217	<20	<500	<100	<100	<100	**362**	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	95.02	2.48	ND	ND	92.54	**76.0**	900	**1,170**	4,510	6,656	<10	<250	<50	<50	<50	**347**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	95.02	4.76	ND	ND	90.26	**29.9**	236	574	1,920	2,760	<5	<130	<25	<25	<25	**176**	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	95.02	2.87	ND	ND	92.15	**17.3**	108	488	1,570	2,183	<5	<130	<25	<25	<25	**169**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	95.02	2.57	ND	ND	92.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	95.02	2.06	ND	ND	92.96	**41.3**	207	**876**	2,800	3,924	<10	<250	<50	<50	<50	**251**	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	95.02	1.10	ND	ND	93.92	**54.6**	609	**1,050**	3,800	5,514	<10	<250	<50	<50	<50	**269**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	95.02	1.44	ND	ND	93.58	**89.3**	942	**1,230**	4,710	6,971	<5	<130	<25	<25	<25	**295**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	95.02	3.87	ND	ND	91.15	**45.6**	306	**1,030**	3,600	4,982	<10	<250	<50	<50	<50	**239**	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	95.02	3.53	ND	ND	91.49	**86.0**	531	**1,210**	4,070	5,897	<10	<250	<50	<50	<50	**294**	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	95.02	2.41	ND	ND	92.61	**32.1**	168	**841**	2,250	3,291.1	<1	<20	<1	<1	<1	**227**	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	95.02	2.59	ND	ND	92.43	**14.1**	162	555	1,730	2,461.1	<1	<20	<1	<1	<1	**148**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	95.02	3.92	ND	ND	91.10	**35.5**	323	**898**	2,530	3,786.5	<1	<20	<1	<1	<1	**267**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	95.02	2.18	ND	ND	92.84	**49.1**	324	**887**	2,700	3,960.1	<1	<10	<1	<1	<1	**248**	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	95.02	2.08	ND	ND	92.94	**34.3**	425	**1,070**	3,320	4,849	<1	<10	<1	<1	<1	**244**	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	95.02	3.41	ND	ND	91.61	**20.5**	239	**805**	2,530	3594.5	<5	<50	<5	<5	<5	**157**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	95.02	6.23	ND	ND	88.79	**21.5**	165	**726**	2,130	3,042.5	<1	<10	<2	<1	<1	**189**	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	95.02	7.23	ND	ND	87.79	**27.4 [26.1]**	152 [147]	**819 [845]**	2,460 [2,510]	3,508.4 [3,528.1]	<1 [<1]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [<1]	**250 [232]**	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	95.02	2.75	ND	ND	92.27	**21.1**	124	**901**	2,570	3,616.1	<1	<10	<2	<1	<1	**181**	NS	NS	NS	NS	6.01	1.11	14.99	3.26	21	
	5/1/2013	95.02	3.09	ND	ND	91.93	**21.1**	193	**747**	2,460	3,421.1	<1	<10	<2	<1	<1	**197**	NS	NS	NS	NS	5.91	0.716	15.26	0.21	-3.7	
	8/6/2013	95.02	2.24	ND	ND	92.78	**36.2**	230	**722**	2,170	3,158.2	<1	<10	<2	<1	<1	**237**	NS	NS	NS	NS	5.73	0.938	17.72	3.07	41.9	
	10/3/2013	95.02	2.79	ND	ND	92.23	**38.6**	242	**813**	2,300	3,393.6	<1	<10	<2	<1	<1	**266**	NS	NS	NS	NS	5.55	0.605	18.95	0.55	45.9	
	3/6/2014	95.02	1.60	ND	ND	93.42	**24.3**	240	**892**	2,720	3,876.3	<1	<10	<2	<1	<1	**321**	NS	NS	NS	NS	6.13	2.081	14.72	2.93	-53.4	
	6/12/2014	95.02	2.03	ND	ND	92.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Inaccessible
	9/19/2014	95.02	4.32	ND	ND	90.70	**24.2**	164	**864**	2,380	3,432.2	<10	<100	<20	<10	<10	**313**	<1	8.21	6.39	<0.1	5.68	0.452	20.96	0.25	-53.0	
	11/13/2014	95.02	3.33	ND	ND	91.69	**7.93**	42.6	558	1,530	2,138.53	<1	<10	<2	<1	<1	**87.4**	1.73	15.2	2.02	<0.1	6.19	0.708	18.52	4.87	-25.8	
	3/25/2015	95.02	1.89	ND	ND	93.13	**15.4**	157	**744**	2,260	3,176.4	<1	<10	<2	<1	<1	**145**	18.9	29.9	16.5	<0.1	5.91	7.116	13.36	1.32	-123.3	
	6/25/2015	95.02	2.13	ND	ND	92.89	**18.9**	139	**728**	1,900	2,785.9	<1	<10	<2	<1	<1	**191**	<1	17.8	9.50	0.310	5.78	2.245	13.07	1.41	-7.2	
	7/29/2015	95.02	1.78	ND	ND	93.24	**26.4**	190	**763**	2,290	3,269.4	<1	<10	<2	<1	<1	**222**	<1	16.6	10.70	<0.1	5.94	2.032	17.71	0.13	6.3	
	10/29/2015	95.02	2.63	ND	ND	92.39	**18.8**	134	**854**	2,340	3,346.8	<10	<100	<20	<10	<10	**250**	<1	10.1	--	<0.1	7.23	0.582	18.58	0.2	-37.4	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	--	*20*	--	--	--	--	*0.65*	--	*2,600*	--	--	--	--	--	--	--	
MW-8	12/7/2005	97.04	2.56	ND	ND	94.48	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	97.04	2.61	ND	ND	94.43	<1	2.0	10.3	34	46	**24.3**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	97.04	2.27	ND	ND	94.77	<1	4.1	13.9	49	67	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	97.04	2.53	ND	ND	94.51	**104**	27.7	130	644	906	**8870**	<500	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	97.04	2.28	ND	ND	94.76	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	97.04	2.46	ND	ND	94.58	<1	0.3 J	0.7 J	2	2.9 J	18.9	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	97.04	2.92	ND	ND	94.12	<1	<1	<1	<1	BRL	13.5	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	97.04	3.02	ND	ND	94.02	<1	<1	<1	<1	BRL	1.6	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	97.04	2.30	ND	ND	94.74	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	97.04	2.67	ND	ND	94.37	0.34 J	<1	<1	<1	0.34 J	**86.2**	13.8 J	<5	<5	0.84 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	97.04	1.90	ND	ND	95.14	0.58 J	<1	<1	<1	0.58 J	**52.3**	86.4	<5	<5	0.95 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	97.04	2.55	ND	ND	94.49	0.91 J	9.2	3.3	10	23.0 J	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	97.04	3.00	ND	ND	94.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	97.04	4.65	ND	ND	92.39	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	97.04	2.59	ND	ND	94.45	2.2	<1	1.3	0.95 J	4.5 J	**71.8**	<25	<5	<5	3.8 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	97.04	2.46	ND	ND	94.58	0.28 J	<1	<1	<1	0.28 J	18.5	20.5 J	<5	<5	0.71 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	97.04	2.65	ND	ND	94.39	<1	<1	<1	<1	BRL	0.62 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	97.04	2.90	ND	ND	94.14	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	97.04	2.01	ND	ND	95.03	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	97.04	2.53	ND	ND	94.51	<1	<1	<1	<3	BRL	2.76	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	97.04	4.65	ND	ND	92.39	<1	11.5	15	56.3	82.8	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	97.04	2.59	ND	ND	94.45	<1 [<1]	<1 [<1]	<1 [<1]	<3 [<3]	BRL	1.32 [1.45]	<10 [<10]	<1 [<1]	<1 [<1]	<1 [<1]	<5 [<5]	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	97.04	2.81	ND	ND	94.23	<1 [<1]	<1 [<1]	<1 [<1]	<3 [<3]	BRL [BRL]	3.46 [3.86]	<10 [<10]	<1 [<1]	<1 [<1]	<1 [<1]	<5 [<5]	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	97.04	2.85	ND	ND	94.19	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	97.04	3.34	ND	ND	93.70	1.32	<1	<1	<3	1.32	7.33	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	97.04	5.65	ND	ND	91.39	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	97.04	2.51	ND	ND	94.53	<1	<1	<1	<3	BRL	1.01	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.91	0.665	7.57	8.55	189	
	5/1/2013	97.04	2.82	ND	ND	94.22	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	7.10	0.346	13.93	5.03	83.0	
	8/6/2013	97.04	2.35	ND	ND	94.69	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	7.02	0.361	27.41	5.58	170.7	
	10/3/2013	97.04	2.74	ND	ND	94.30	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.78	0.386	24.39	1.14	21.9	
	3/6/2014	97.04	2.46	ND	ND	94.58	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	7.35	0.256	7.11	11.27	22.2	
	6/12/2014	97.04	2.47	ND	ND	94.57	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.90	0.327	23.30	4.98	47.9	
	9/19/2014	97.04	4.92	ND	ND	92.12	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	59.5	4.86	<0.1	0.705	7.02	0.328	23.35	1.34	91.4	
	11/13/2014	97.04	2.61	ND	ND	94.43	<1	<1	<1	2.02	2.02	<1	<10	<2	<1	<1	<5	39.6	0.655	<0.1	1.52	7.03	0.264	18.97	7.81	68.5	
	3/25/2015	97.04	2.40	ND	ND	94.64	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	37.3	0.813	<0.1	1.59	7.16	0.281	9.04	8.42	218.1	
	6/25/2015	97.04	2.26	ND	ND	94.78	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	60.6	<0.1	<0.1	1.48	6.83	0.417	26.89	4.62	132.5	
	7/29/2015	97.04	2.73	ND	ND	94.31	<1	<1	<1	<3	BRL	1.29	<10	<2	<1	<1	<5	110	<0.1	<0.1	0.308	7.10	0.598	28.43	0.68	-140.0	
	10/29/2015	97.04	2.52	ND	ND	94.52	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	47.5	2.79	--	1.02	7.33	0.328	20.43	4.16	-169.9	

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Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-10	6/1/2005	93.35	3.82	ND	ND	89.53	**9**	1	4	7	21	9.3	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	93.35	4.51	ND	ND	88.84	**24.7**	0.38 J	26.8	8	59.4 J	19.6	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	93.35	4.67	ND	ND	88.68	**13.3**	0.52 J	5.8	4	23.6 J	**45.7**	25.3	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	93.35	4.04	ND	ND	89.31	**11.2**	38.1	83.9	266	399	**164**	127	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	93.35	4.54	ND	ND	88.81	**18.9**	7.4	20.1	46	93	**42.5**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	93.35	3.73	ND	ND	89.62	0.85 J	2.6	10.1	28	41.1 J	**22.5**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	93.35	4.10	ND	ND	89.25	0.39 J	3.4	7.9	21	32.3 J	6.7	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	93.35	4.40	ND	ND	88.95	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	93.35	4.75	ND	ND	88.60	<1	<1	<1	0.45 J	0.45 J	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	93.35	4.56	ND	ND	88.79	3.6	<1	2.0	<1	6	11.6	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	93.35	4.27	ND	ND	89.08	<1	<1	<1	<1	BRL	3.0	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	93.35	2.72	ND	ND	90.63	<1	<1	<1	<1	BRL	1.4	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	93.35	4.31	ND	ND	89.04	<1	0.65 J	0.30 J	0.69 J	1.64 J	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	93.35	3.87	ND	ND	89.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	93.35	3.33	ND	ND	90.02	<1	<1	<1	<1	BRL	0.40 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	93.35	3.41	ND	ND	89.94	0.30 J	<1	<1	<1	0.30 J	2.7	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	93.35	2.94	ND	ND	90.41	<1	0.40 J	1.2	4	5.8 J	0.57 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	93.35	4.41	ND	ND	88.94	<1	0.58 J	0.61 J	2	3.2 J	1.6	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	93.35	4.71	ND	ND	88.64	5	0.82 J	13.5	5	24.2 J	**40.3**	30.4	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	93.35	3.96	ND	ND	89.39	<1	<1	<1	<3	BRL	1.37	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	93.35	3.55	ND	ND	89.80	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	93.35	4.40	ND	ND	88.95	<1	<1	<1	<3	BRL	15.4	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	93.35	4.07	ND	ND	89.28	<1	<1	<1	<3	BRL	19.3	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	93.35	4.10	ND	ND	89.25	<1	<1	<1	<3	BRL	2.49	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	93.35	4.76	ND	ND	88.59	<1	<1	<1	<3	BRL	17	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	93.35	4.15	ND	ND	89.20	<1	<1	1.07	<3	1.07	**27.3**	28.7	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	93.35	4.35	ND	ND	89.00	<1	<1	<1	<3	BRL	10.5	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	93.35	4.35	ND	ND	89.00	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.70	2.82	9.32	3.09	133	
	5/1/2013	93.35	4.01	ND	ND	89.34	<1	<1	<1	<3	BRL	1.53	26.6	<2	<1	<1	<5	NS	NS	NS	NS	6.09	4.805	12.34	1.95	89.6	
	8/6/2013	93.35	3.42	ND	ND	89.93	<1	<1	<1	<2	BRL	5.31	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.98	1.692	21.05	0.59	72.0	
	10/3/2013	93.35	4.09	ND	ND	89.26	<1	<1	<1	<2	BRL	1.96	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.20	1.502	21.89	0.21	-3.1	
	3/6/2014	93.35	2.99	ND	ND	90.36	<1	<1	<1	<3	BRL	1.12	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.89	23.39	8.39	2.63	221.0	
	6/12/2014	93.35	2.81	ND	ND	90.54	1.03	<1	<1	<2	1.03	5.08	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.43	6.873	18.67	0.66	120.7	
	9/19/2014	93.35	4.31	ND	ND	89.04	1.25	<1	<1	<2	1.25	5.19	<10	<2	<1	<1	<5	1,030	4.97	1.82	<0.1	6.21	3.952	21.29	0.51	-5.6	
	11/13/2014	93.35	4.54	ND	ND	88.81	<1	<1	<1	<2	BRL	3.79	<10	<2	<1	<1	<5	41.1	2.13	0.470	0.301	6.36	1.508	17.53	2.05	33.4	
	3/25/2015	93.35	3.16	ND	ND	90.19	<1	<1	<1	<2	BRL	1.89	<10	<2	<1	<1	<5	55.7	2.74	<0.1	0.614	6.16	16.98	6.92	3.80	152.8	
	6/25/2015	93.35	3.38	ND	ND	89.97	<1	<1	<1	<3	BRL	2.94	<10	<2	<1	<1	<5	21.9	1.40	0.595	0.121	6.31	4.989	15.87	1.72	47.6	
	7/29/2015	93.35	3.56	ND	ND	89.79	<1	<1	<1	<3	BRL	2.48	<10	<2	<1	<1	<5	24.5	2.35	1.20	<0.1	6.28	6.968	20.54	0.39	54.5	
	10/29/2015	93.35	4.01	ND	ND	89.34	<1	<1	<1	<3	BRL	10.2	<10	<2	<1	<1	<5	11.8	5.58	--	0.112	7.60	2.695	19.37	1.29	-10.1	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-11	6/1/2005	96.64	7.84	ND	ND	88.80	**461**	**1,410**	**1,690**	5,380	8,941	**748**	185	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	96.64	8.48	ND	ND	88.16	**504**	488	**839**	2,500	4,331	**614**	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	96.64	8.52	ND	ND	88.12	**270**	317	**729**	1,920	3,236	**422**	<130	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	96.64	6.10	ND	ND	90.54	**148**	117	463	921	1,649	**206**	55.8	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	96.64	8.16	ND	ND	88.48	**102**	64.0	341	423	930	**185**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	96.64	9.15	ND	ND	87.49	**275**	307	**833**	2,060	3,475	**328**	<250	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	96.64	6.07	ND	ND	90.57	**135**	117	443	1,160	1,855	**289**	69.3 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	96.64	7.96	ND	ND	88.68	**14.0**	12.4	12.7	159	198	**65.4**	<25	<5	<5	4.2 J	**19.0**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	96.64	7.78	ND	ND	88.86	3.0	0.42 J	0.96 J	6	10.5 J	**36.7**	<25	<5	<5	0.92 J	**2.1 J**	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	96.64	9.18	ND	ND	87.46	**131**	89.5	**738**	1,570	2,529	**214**	<130	<25	<25	<25	**212**	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	96.64	6.87	ND	ND	89.77	**65.8**	63.1	333	781	1,243	**149**	34.8	<5	<5	10.7	**87.3**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	96.64	5.68	ND	ND	90.96	**60.6**	48.9	360	758	1,228	**142**	34.5 J	<13	<13	10.9 J	**84.9**	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	96.64	8.45	ND	ND	88.19	**60.4**	47.0	521	523	1,151	**169**	<50	<10	<10	11.9	**118**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	96.64	6.73	ND	ND	89.91	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	96.64	6.23	ND	ND	90.41	<1	<1	<1	<1	BRL	16.1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	96.64	5.22	ND	ND	91.42	**8.9**	4.5	70.9	95	180	19.2	<25	<5	<5	1.4 J	**16.0**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	96.64	4.93	ND	ND	91.71	**29.6**	11.3	198	241	480	**76.1**	16.2 J	<5	<5	4.5 J	**51.8**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	96.64	9.31	ND	ND	87.33	**78.7**	64.2	**884**	1,210	2,237	**206**	<63	<13	<13	17.4	**213**	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	96.64	8.85	ND	ND	87.79	**103**	65.4	422	566	1,156	**176**	30.8	<5	<5	11.8	**143**	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	96.64	5.96	ND	ND	90.68	**4.64**	4	47	66	121	12.8	<20	<1	<1	<1	**9.29**	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	96.64	5.99	ND	ND	90.65	**16.4**	12	126	203	357	**41.7**	<20	<1	<1	<1	**35.2**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	96.64	8.58	ND	ND	88.06	**51.6**	37.8	432	487	1,008.4	**120**	<20	<1	<1	8.06	**87.5**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	96.64	6.36	ND	ND	90.28	**15.6**	12	158	218	403.6	**36.4**	<10	<1	<1	2.31	**44.8**	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	96.64	5.96	ND	ND	90.68	**9.95**	10.4	143	228	391	**26**	<10	<1	<1	<1	**41.5**	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	96.64	9.10	ND	ND	87.54	**31.4**	17	291	404	743.4	**87.4**	13.3	<1	<1	6.17	**65.9**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	96.64	10.51	ND	ND	86.13	**71.2**	56.8	**848**	1,270	2,246.0	**142**	<10	<2	<1	9.86	**157**	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	96.64	10.82	ND	ND	85.82	**103**	72.9	667	967	1,809.9	**148**	32.7	<2	<1	12.1	**193**	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	96.64	6.40	ND	ND	90.24	**8.17 [10.2]**	4.39 [6.51]	92.7 [129]	70.3 [125]	175.56 [270.71]	<1 [14.1]	<10 [<10]	<2 [<2]	<1 [<1]	<1 [1.1]	**24.6 [9.39]**	NS	NS	NS	NS	6.20	0.202	12.31	1.87	42	
	5/1/2013	96.64	6.63	ND	ND	90.01	**15.9**	15.6	251	455	737.5	**52.4**	<10	<2	<1	3.87	**76**	NS	NS	NS	NS	5.70	0.221	13.28	0.74	58.3	
	8/6/2013	96.64	5.23	ND	ND	91.41	2.91	<1	15	7.81	25.72	8.31	<10	<2	<1	<1	**16.3**	NS	NS	NS	NS	5.85	0.176	19.14	1.75	100.2	
	10/3/2013	96.64	6.88	ND	ND	89.76	**6.65**	1.89	70.8	36.4	115.74	**21.0**	<10	<2	<1	1.56	**42.2**	NS	NS	NS	NS	5.72	0.177	21.03	1.00	67.0	
	3/6/2014	96.64	4.42	ND	ND	92.22	<1	1.05	3.85	7.92	12.82	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.02	2.082	11.57	6.02	39.6	
	6/12/2014	96.64	5.34	ND	ND	91.30	1.10	1.33	15.2	13.2	30.83	3.44	<10	<2	<1	<1	**7.40**	NS	NS	NS	NS	6.14	0.593	16.43	4.01	86.4	
	9/19/2014	96.64	9.59	ND	ND	87.05	**12.1**	9.91	210	244	476.01	**39.1**	<10	<2	<1	3.63	**77.8**	6.27	9.72	7.01	<0.1	5.89	0.626	19.45	0.37	-138.4	
	11/13/2014	96.64	8.39	ND	ND	88.25	**13.8**	11.8	304	328	657.6	**46.5**	<10	<2	<1	3.72	**36.1**	7.16	76.3	1.20	<0.1	5.97	0.352	18.68	4.29	18.4	
	3/25/2015	96.64	4.65	ND	ND	91.99	1.06	1.34	36.6	23.3	62.30	2.52	<10	<2	<1	<1	**11.2**	4.81	12.7	2.99	0.319	5.92	0.257	10.20	4.77	45.6	
	6/25/2015	96.64	4.91	ND	ND	91.73	1.09	1.36	12.9	15.6	30.95	3.87	<10	<2	<1	<1	**8.86**	6.85	10.1	3.57	2.26	5.91	0.240	18.52	4.78	88.7	
	7/29/2015	96.64	5.80	ND	ND	90.84	1.83	1.23	37.8	31.9	72.76	6.38	<10	<2	<1	<1	**16.6**	6.08	4.94	4.09	0.326	11.43	0.226	18.98	0.58	-200.2	
	10/29/2015	96.64	6.71	ND	ND	89.93	4.37	2.77	114	72.2	193.34	**20.3**	<10	<2	<1	<1	**44.5**	5.96	7.52	--	0.205	6.04	0.210	20.10	2.58	-203.9	

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Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-12	6/1/2005	100.00	10.50	ND	ND	89.50	3.6	<2	<2	<2	3.6	**283**	<50	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	100.00	12.65	ND	ND	87.35	0.45 J	<1	0.72 J	1.3	2.5 J	**135**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	100.00	13.16	ND	ND	86.84	4.0	25.1	31.7	101	162	**198**	<50	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	100.00	8.19	ND	ND	91.81	1.2	7.6	26.9	75.0	110.7	**161**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	100.00	12.97	ND	ND	87.03	1.8	7.3	15.4	48.6	73.1	**224**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	100.00	15.78	ND	ND	84.22	<1	0.92 J	16.6	56.3	73.8 J	**25.7**	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	100.00	7.98	ND	ND	92.02	0.84 J	0.38 J	1.3	4.1	6.6 J	**144**	11.2 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	100.00	12.35	ND	ND	87.65	0.85 J	<1	<1	<1	0.85 J	**153**	9.8 J	<5	<5	27.4	**1.4 J**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	100.00	13.85	ND	ND	86.15	<1	<1	<1	<1	BRL	**126**	<25	<5	<5	21.6	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	100.00	14.53	ND	ND	85.47	<1	<1	<1	<1	BRL	**56.0**	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	100.00	9.07	ND	ND	90.93	0.31 J	<1	0.31 J	0.81 J	1.43 J	**114**	<25	<5	<5	14.3	**1.4 J**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	100.00	8.62	ND	ND	91.38	<1	<1	<1	<1	BRL	**96.7**	13.2 J	<5	<5	16.6	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	100.00	13.86	ND	ND	86.14	<1	1.5	0.61 J	1.6	3.7 J	**96.7**	<25	<5	<5	18.0	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	100.00	10.90	ND	ND	89.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	100.00	8.54	ND	ND	91.46	<1	<1	<1	<1	BRL	**38.8**	<25	<5	<5	4.9 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	100.00	7.36	ND	ND	92.64	0.32 J	<1	<1	<1	0.32 J	**90.4**	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	100.00	7.39	ND	ND	92.61	1.4	<1	0.86 J	0.64 J	2.9 J	**80.9**	9.5 J	<5	<5	13.2	**2.6 J**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	100.00	15.90	ND	ND	84.10	<1	1.1	1.3	5.0	7.4	**53.0**	<25	<5	<5	13.1	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	100.00	14.50	ND	ND	85.50	<1	<1	0.42 J	1.4	1.8 J	19.1	<25	<5	<5	3.2 J	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	100.00	7.72	ND	ND	92.28	<1 [<1]	<1 [<1]	<1 [<1]	<3 [<3]	BRL	**36.8 [35.5]**	<20 [<20]	<1 [<1]	<1 [<1]	6.32 [5.99]	<5 [<5]	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	100.00	8.63	ND	ND	91.37	<1 [<1]	<1 [<1]	1.15 [1.02]	<3 [<3]	BRL	**60.9 [54.1]**	<20 [<20]	<1 [<1]	<1 [<1]	<1 [10.6]	**5.01 [<5]**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	100.00	14.09	ND	ND	85.91	<1	<1	<1	<3	BRL	**37**	<20	<1	<1	6.78	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	100.00	8.48	ND	ND	91.52	<1	1.62	<1	<3	1.62	**28.9**	<10	<1	<1	4.82	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	100.00	8.33	ND	ND	91.67	<1	<1	<1	<3	BRL	**43.9**	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	100.00	14.55	ND	ND	85.45	<1	<1	<1	<3	BRL	**27.1**	<10	<1	<1	4.11	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	100.00	17.95	ND	ND	82.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	10/4/2012	100.00	dry	ND	ND	>100.00	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	2/22/2013	100.00	8.42	ND	ND	91.58	<1	<1	<1	<3	BRL	9.48	<10	<2	<1	1.41	<5	NS	NS	NS	NS	5.48	0.668	12.76	0.55	148	
	5/1/2013	100.00	9.13	ND	ND	90.87	<1	<1	<1	<3	BRL	**27.4**	<10	<2	<1	5.24	<5	NS	NS	NS	NS	4.73	0.485	13.33	0.84	159.4	
	8/6/2013	100.00	7.25	ND	ND	92.75	<1	<1	<1	<2	BRL	16.7	<10	<2	<1	3.06	<5	NS	NS	NS	NS	4.82	0.394	16.42	0.45	162.1	
	10/3/2013	100.00	9.83	ND	ND	90.17	<1	<1	<1	<2	BRL	13.7	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.75	0.287	18.58	0.11	132.8	
	3/6/2014	100.00	6.91	ND	ND	93.09	<1	<1	<1	<3	BRL	15.2	<10	<2	<1	2.46	<5	NS	NS	NS	NS	4.68	0.543	12.61	0.39	230.1	
	6/12/2014	100.00	8.38	ND	ND	91.62	<1	<1	<1	<2	BRL	9.81	<10	<2	<1	1.86	<5	NS	NS	NS	NS	4.85	0.348	13.60	0.58	170.1	
	9/19/2014	100.00	16.21	ND	ND	83.79	<1	<1	<1	<2	BRL	7.25	<10	<2	<1	1.16	<5	21.1	18.4	<0.1	0.155	4.98	0.205	16.90	1.29	-34.4	
	11/13/2014	100.00	13.29	ND	ND	86.71	<1	<1	<1	<2	BRL	3.28	<10	<2	<1	<1	<5	17.1	0.824	0.235	1.29	5.10	0.812	17.94	0.90	227.8	
	3/25/2015	100.00	6.73	ND	ND	93.27	<1	<1	<1	<2	BRL	4.55	<10	<2	<1	<1	<5	15.1	0.667	<0.1	0.624	5.06	0.750	10.71	4.76	231.9	
	6/25/2015	100.00	7.31	ND	ND	92.69	<1	<1	<1	<3	BRL	5.87	<10	<2	<1	1.38	<5	19.5	1.78	0.265	0.171	4.95	0.431	14.85	2.49	195.7	
	7/29/2015	100.00	8.58	ND	ND	91.42	<1	<1	<1	<3	BRL	5.73	<10	<2	<1	1.35	<5	29.0	0.936	0.151	<0.1	10.92	0.288	15.62	0.09	-183.0	
	10/29/2015	100.00	13.98	ND	ND	86.02	<1	<1	<1	<3	BRL	1.77	<10	<2	<1	<1	<5	16.7	32.4	--	4.59	7.20	0.537	18.63	0.34	-26.7	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-13	6/1/2005	94.38	9.60	ND	ND	84.78	0.99 J	11.7	62.3	225	300 J	2.2	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	94.38	10.93	ND	ND	83.45	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	94.38	12.06	ND	ND	82.32	1.4	16.3	25.5	83.9	127.1	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	94.38	7.87	ND	ND	86.51	<1	1.5	7.3	21.2	30.0	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	94.38	11.29	ND	ND	83.09	<1	7.0	15.4	48.0	70.4	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	94.38	11.61	ND	ND	82.77	<1	0.76 J	10.5	31.0	42.3 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	94.38	7.58	ND	ND	86.80	<1	1.8	21.8	63.7	87.3	2.1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	94.38	11.11	ND	ND	83.27	<1	<1	<1	0.91 J	0.91 J	0.46 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	94.38	12.62	ND	ND	81.76	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	94.38	11.97	ND	ND	82.41	<1	<1	0.56 J	1.3	1.9 J	0.64 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	94.38	9.52	ND	ND	84.86	<1	2.0	25.3	73.5	100.8	3.5	<25	<5	<5	<5	**11.8**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	94.38	3.75	ND	ND	90.63	<1	0.45 J	8.0	18.3	26.8 J	1.7	<25	<5	<5	<5	**3.2 J**	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	94.38	12.49	ND	ND	81.89	1.2	1.3	2.1	9.3	13.9	5.5	<25	<5	<5	<5	**5.3**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	94.38	10.00	ND	ND	84.38	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	94.38	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	94.38	6.36	ND	ND	88.02	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	94.38	6.55	ND	ND	87.83	<1	<1	<1	<1	BRL	1.5	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	94.38	14.77	ND	ND	79.61	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	94.38	14.40	ND	ND	79.98	<1	<1	0.44 J	1.1	1.5 J	0.46 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	94.38	4.58	ND	ND	89.80	<1	<1	5.25	11.8	17	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	94.38	8.85	ND	ND	85.53	<1	<1	13.9	46.5	60	3.27	<20	<1	<1	<1	**7.24**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	94.38	12.63	ND	ND	81.75	<1	<1	14	43	57	5.76	<20	<1	<1	<1	**17.1**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	94.38	6.83	ND	ND	87.55	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	94.38	5.90	ND	ND	88.48	<1	<1	1.78	3.88	6	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	94.38	13.05	ND	ND	81.33	<1	<1	2.72	<3	2.72	2.09	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	94.38	17.93	ND	ND	76.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	10/4/2012	94.38	17.96	ND	ND	76.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	2/22/2013	94.38	6.63	ND	ND	87.75	<1	<1	2.8	5.07	7.87	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.06	1.59	10.80	6.76	143	
	5/1/2013	94.38	9.34	ND	ND	85.04	<1	<1	9.56	25.6	35.16	1.95	28	<2	<1	<1	<5	NS	NS	NS	NS	5.48	2.006	12.97	3.30	121.0	
	8/6/2013	94.38	5.22	ND	ND	89.16	<1	<1	3.34	5.64	8.98	1.56	<10	<2	<1	<1	**5.24**	NS	NS	NS	NS	5.50	1.611	15.24	1.89	140.7	
	10/3/2013	94.38	8.91	ND	ND	85.47	<1	<1	6.58	19.4	25.98	2.41	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.23	1.840	17.11	0.17	129.9	
	3/6/2014	94.38	3.95	ND	ND	90.43	<1	<1	1.97	<3	1.97	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.41	3.491	11.71	4.91	169.6	
	6/12/2014	94.38	5.88	ND	ND	88.50	<1	<1	11.9	30.2	42.1	1.98	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.28	3.730	13.42	0.75	155.0	
	9/19/2014	94.38	14.89	ND	ND	79.49	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	356	26.4	0.189	<0.1	5.33	2.286	15.99	1.31	-36.2	
	11/13/2014	94.38	11.54	ND	ND	82.84	<1	1.35	<1	<2	1.35	<1	<10	<2	<1	<1	<5	27.1	1.85	0.111	0.523	5.49	3.593	16.50	5.45	65.3	
	3/25/2015	94.38	4.68	ND	ND	89.70	<1	<1	2.59	<2	2.59	1.29	<10	<2	<1	<1	<5	16.3	1.99	0.762	0.219	5.76	3.890	10.24	4.98	204.9	
	6/25/2015	94.38	3.94	ND	ND	90.44	<1	<1	<1	<3	BRL	8.19	28.6	<2	<1	<1	<5	14.5	3.56	0.606	0.101	5.40	2.329	10.83	1.59	142.3	
	7/29/2015	94.38	7.66	ND	ND	86.72	<1	<1	16.9	32.4	49.3	3.22	<10	<2	<1	<1	**5.68**	20.6	1.21	0.651	0.151	5.46	3.249	14.99	0.23	140.5	
	10/29/2015	94.38	8.89	ND	ND	85.49	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	18.1	3.63	--	0.413	5.69	1.822	17.54	445.56	155.4	

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Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	*--*	*20*	*--*	*--*	*--*	*--*	*0.65*	*--*	*2,600*	*--*	*--*	*--*	*--*	*--*	*--*	*--*	
MW-14	6/1/2005	93.10	11.90	ND	ND	81.20	**456**	51.1	50.8	144	702	**102**	<50	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	93.10	11.58	ND	ND	81.52	<1	5.3	<1	<1	5.3	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	93.10	12.88	ND	ND	80.22	**66.7**	14.8	23.5	86.1	191.1	**25.9**	23.2 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	93.10	8.87	ND	ND	84.23	**62.9**	3.1	8.8	35.9	110.7	**28.5**	24.4 J	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	93.10	12.69	ND	ND	80.41	**580**	75.8	87.3	225	968	**142**	141	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	93.10	10.25	ND	ND	82.85	<1	0.31 J	2.9	9.5	12.7 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	93.10	8.40	ND	ND	84.70	4.7	0.41 J	0.47 J	1	7 J	5.3	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	93.10	12.50	ND	ND	80.60	**27.0**	2.8	1.7	19.8	51.3	**32.5**	11.3 J	<5	<5	<5	**2.9 J**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	93.10	14.52	ND	ND	78.58	**104**	0.33 J	1.3	11.5	117 J	**61.7**	42.2	0.80 J	<5	<5	**15.9**	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	93.10	12.32	ND	ND	80.78	0.72 J	<1	<1	<1	0.72 J	2.4	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	93.10	10.33	ND	ND	82.77	**19.8**	1.1	1.2	2.7	24.8	18.2	11.3 J	<5	<5	<5	**1.5 J**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	93.10	7.85	ND	ND	85.25	2.0	<1	<1	<1	2.0	3.6	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	93.10	13.09	ND	ND	80.01	**109**	4.9	1.7	33.1	149	**69.6**	44.2	1.1 J	<5	<5	**11.2**	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	93.10	11.37	ND	ND	81.73	**41.7**	4.4	<1	7.3	53.4	**23.7**	17.1 J	0.38 J	<5	<5	**6.0**	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	93.10	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	93.10	8.54	ND	ND	84.56	<1	<1	<1	<1	BRL	7.1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	93.10	5.98	ND	ND	87.12	**45**	10.1	9.0	38.0	102.1	**39.6**	21.4 J	0.57 J	<5	<5	**10.4**	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	93.10	15.94	ND	ND	77.16	**118**	0.61 J	0.90 J	20.4	140 J	**109**	100	1.9 J	<5	<5	**28.8**	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	93.10	17.50	ND	ND	75.60	<1	0.50 J	0.54 J	0.27 J	1.31 J	<1	<25	<5	<5	<5	**1.6 J**	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	93.10	7.59	ND	ND	85.51	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	93.10	9.91	ND	ND	83.19	**28.1**	17.9	22.4	62.7	131	**49.4**	<20	<1	<1	<1	**8.02**	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	93.10	13.98	ND	ND	79.12	**161 [151]**	<1 [<1]	11.5 [9.9]	61.9 [52.7]	234.4 [213.6]	**79.1 [78.4]**	31.7 [31.1]	<1 [<1]	<1 [<1]	1.29 [1.27]	**42.2 [35.7]**	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	93.10	9.91	ND	ND	83.19	**14.6 [13.3]**	<1 [<1]	<1 [<1]	4.11 [3.67]	18.71 [16.97]	14.1 [13]	<10 [<10]	<1 [<1]	<1 [<1]	<1 [<1]	<5 [<5]	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	93.10	9.09	ND	ND	84.01	**9.79**	<1	<1	6.09	16	17.4	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	93.10	15.07	ND	ND	78.03	**22.4**	<1	<1	<3	22.4	**65.1**	13	<1	<1	<1	**7.29**	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	93.10	18.05	ND	ND	75.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	10/4/2012	93.10	dry	ND	ND	>93.10	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	insufficient volume for sample
	2/22/2013	93.10	9.57	ND	ND	83.53	<1	1.32	3.46	12.2	16.98	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.37	0.816	10.90	8.81	162	
	5/1/2013	93.10	10.82	ND	ND	82.28	<1	<1	<1	<3	BRL	5.7	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.66	1.265	12.97	4.33	107.4	
	8/6/2013	93.10	7.67	ND	ND	85.43	2.4	<1	<1	8.29	10.69	10.1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.96	1.005	16.23	2.75	166.6	
	10/3/2013	93.10	11.24	ND	ND	81.86	**10.6**	<1	<1	2.58	13.18	**24.9**	<10	<2	<1	<1	**9.44**	NS	NS	NS	NS	4.32	1.563	17.88	0.28	176.6	
	3/6/2014	93.10	7.26	ND	ND	85.84	<1	<1	<1	<3	BRL	1.15	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.85	2.764	11.77	9.10	172.8	
	6/12/2014	93.10	9.68	ND	ND	83.42	**31.2**	5.76	9.49	41.8	88.25	**41.7**	20.7	<2	<1	<1	**15.3**	NS	NS	NS	NS	5.17	2.267	13.30	1.07	231.8	
	9/19/2014	93.10	16.21	ND	ND	76.89	**22.3**	<1	<1	2.93	25.23	**39.0**	10.3	<2	<1	1.12	**7.41**	379	139	4.24	<0.1	5.43	2.222	16.40	1.00	-60.3	
	11/13/2014	93.10	12.59	ND	ND	80.51	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	18.6	7.18	0.391	0.443	6.09	2.282	16.94	3.93	34.9	
	3/25/2015	93.10	7.83	ND	ND	85.27	1.09	<1	<1	<2	1.09	3.69	<10	<2	<1	<1	<5	12.2	0.860	<0.1	0.255	5.90	2.432	9.35	8.34	118.2	
	6/25/2015	93.10	7.16	ND	ND	85.94	<1	<1	<1	<3	BRL	1.11	<10	<2	<1	<1	<5	8,850	8.73	1.10	0.287	5.14	1.920	11.37	5.11	136.6	
	7/29/2015	93.10	9.53	ND	ND	83.57	4.21	<1	<1	<3	4.21	5.88	<10	<2	<1	<1	<5	12.1	13.0	3.85	0.284	5.98	1.763	15.58	1.02	107.7	
	10/29/2015	93.10	9.30	ND	ND	83.80	<1	<1	<1	<3	BRL	1.43	<10	<2	<1	<1	<5	15.7	20.7	--	2.13	6.04	1.066	17.66	442.13	86.7	

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	--	*20*	--	--	--	--	*0.65*	--	*2,600*	--	--	--	--	--	--	--	
MW-15	6/1/2005	92.40	8.31	ND	ND	84.09	1.6	<1	0.87 J	2.3	4.8 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	92.40	6.02	ND	ND	86.38	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	92.40	8.51	ND	ND	83.89	0.68 J	8.5	15.8	51.7	76.7 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	92.40	5.32	ND	ND	87.08	<1	2.7	10.7	31.9	45.3	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	92.40	11.29	ND	ND	81.11	1.8	5.0	11.6	35.5	53.9	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	92.40	7.31	ND	ND	85.09	<1	<1	1.6	5.3	6.9	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	92.40	5.22	ND	ND	87.18	0.78 J	<1	<1	<1	0.78 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	92.40	7.79	ND	ND	84.61	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	92.40	9.00	ND	ND	83.40	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/20/2008	92.40	4.84	ND	ND	87.56	1.2	<1	<1	<1	1.2	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	92.40	6.66	ND	ND	85.74	2.3	<1	0.63 J	0.65 J	3.6 J	<1	<25	<5	<5	<5	**2.0 J**	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	92.40	1.90	ND	ND	90.50	0.60 J	<1	<1	<1	0.60 J	1.1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	92.40	8.55	ND	ND	83.85	0.55 J	4.7	1.5	4.6	11.4 J	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	92.40	7.90	ND	ND	84.50	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	92.40	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	92.40	5.21	ND	ND	87.19	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	92.40	5.88	ND	ND	86.52	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	92.40	10.31	ND	ND	82.09	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	92.40	11.14	ND	ND	81.26	1.7	<1	0.34 J	0.27 J	2.3 J	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	92.40	3.94	ND	ND	88.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	92.40	6.56	ND	ND	85.84	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	92.40	8.88	ND	ND	83.52	1.4	<1	<1	<3	1.4	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	92.40	6.76	ND	ND	85.64	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	92.40	7.45	ND	ND	84.95	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	92.40	9.45	ND	ND	82.95	1.89	<1	<1	<3	1.89	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	92.40	11.82	ND	ND	80.58	4.05	<1	1.88	<3	5.93	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	92.40	13.96	ND	ND	78.44	**10.5**	<1	8.57	<3	19.07	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	92.40	6.10	ND	ND	86.30	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	6.21	0.665	11.47	5.88	202	
	5/1/2013	92.40	7.11	ND	ND	85.29	<1	1.04	2.47	7.96	11.47	<1	15.5	<2	<1	<1	<5	NS	NS	NS	NS	5.62	0.807	12.37	2.98	108.1	
	8/6/2013	92.40	4.15	ND	ND	88.25	<1	<1	1	2.97	3.97	<1	<10	<2	<1	<1	**5.86**	NS	NS	NS	NS	5.80	0.523	15.35	0.70	75.7	
	10/3/2013	92.40	7.41	ND	ND	84.99	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	3.48	0.609	17.73	0.86	237.0	
	3/6/2014	92.40	4.46	ND	ND	87.94	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.77	0.704	11.83	2.83	184.6	
	6/12/2014	92.40	6.78	ND	ND	85.62	1.78	<1	<1	<2	1.78	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.56	0.897	13.00	0.78	231.4	
	9/19/2014	92.40	10.42	ND	ND	81.98	**5.75**	<1	1.53	<2	7.28	<1	<10	<2	<1	<1	**5.79**	232	8.44	<0.1	0.136	5.19	1.243	16.01	1.37	-80.2	
	11/13/2014	92.40	8.89	ND	ND	83.51	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	22.8	5.97	<0.1	0.277	5.35	1.160	15.85	1.97	173.7	
	3/25/2015	92.40	4.86	ND	ND	87.54	<1	<1	<1	2.09	2.09	<1	<10	<2	<1	<1	<5	17.0	4.48	<0.1	0.210	5.86	1.102	10.69	5.58	163.8	
	6/25/2015	92.40	3.78	ND	ND	88.62	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	13.9	2.16	0.286	0.283	5.49	0.893	10.50	1.14	162.2	
	7/29/2015	92.40	6.74	ND	ND	85.66	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	19.4	2.85	<0.1	0.132	5.75	0.932	14.80	1.10	148.9	
	10/29/2015	92.40	9.24	ND	ND	83.16	1.96	<1	<1	<3	1.96	<1	<10	<2	<1	<1	<5	26.7	7.89	--	0.468	5.31	1.099	16.21	4.04	164.4	

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Exxon Service Station #14489
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		Gauging Data					Analytical Data															Field Parameters					
Well ID	Date	Top of Casing Elevation (feet)	Depth to Water (feet)	Depth to Hydro-carbon (feet)	Hydro-carbon Thickness (feet)	Corrected GW Elevation (feet)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Naph-thalene (µg/L)	Sulfate	Total Iron	Dissolved Iron	Nitrate/Nitrite	pH (s.u.)	Conductivity (mS/cm)	Temperature (°C)	DO (mg/L)	ORP (mV)	Comments
							5	*1,000*	*700*	*10,000*	--	*20*	--	--	--	--	*0.65*	--	*2,600*	--	--	--	--	--	--	--	
MW-16	6/1/2005	90.30	7.42	ND	ND	82.88	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/7/2005	90.30	6.12	ND	ND	84.18	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	5/24/2006	90.30	7.50	ND	ND	82.80	<1	2.0	6.0	31.6	39.6	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	11/7/2006	90.30	5.16	ND	ND	85.14	0.51 J	4.7	17.8	51.1	74.1 J	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/21/2007	90.30	8.50	ND	ND	81.80	<1	9.8	19.8	61.8	91.4	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	12/11/2007	90.30	5.84	ND	ND	84.46	<1	<1	1.0	3.3	4.3	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	3/24/2008	90.30	5.13	ND	ND	85.17	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA	NS	NS	NS	NS	--	--	--	--	--	
	6/29/2008	90.30	7.19	ND	ND	83.11	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2008	90.30	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	Well not located, not sampled
	11/20/2008	90.30	9.43	ND	ND	80.87	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/11/2009	90.30	6.05	ND	ND	84.25	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2009	90.30	4.15	ND	ND	86.15	<1	<1	<1	<1	BRL	0.54 J	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/31/2009	90.30	6.50	ND	ND	83.80	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/13/2009	90.30	5.15	ND	ND	85.15	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	--	--	--	--	--	
	10/27/2009	90.30	3.95	ND	ND	86.35	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	1/12/2010	90.30	5.16	ND	ND	85.14	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	4/21/2010	90.30	4.96	ND	ND	85.34	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/22/2010	90.30	8.49	ND	ND	81.81	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	11/23/2010	90.30	7.49	ND	ND	82.81	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5	NS	NS	NS	NS	--	--	--	--	--	
	3/2/2011	90.30	4.89	ND	ND	85.41	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/19/2011	90.30	5.36	ND	ND	84.94	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	7/12/2011	90.30	8.84	ND	ND	81.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/24/2011	90.30	5.48	ND	ND	84.82	<1	<1	1.3	4.55	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/8/2012	90.30	5.41	ND	ND	84.89	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	5/22/2012	90.30	8.83	ND	ND	81.47	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	8/14/2012	90.30	11.87	ND	ND	78.43	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	10/4/2012	90.30	10.99	ND	ND	79.31	<1	<1	1.09	<3	1.09	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	--	--	--	--	--	
	2/22/2013	90.30	5.70	ND	ND	84.60	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.39	0.351	11.38	4.57	298	
	5/1/2013	90.30	5.94	ND	ND	84.36	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.87	0.457	12.01	4.38	128.0	
	8/6/2013	90.30	4.56	ND	ND	85.74	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.99	0.207	15.87	1.96	155.3	
	10/3/2013	90.30	6.01	ND	ND	84.29	<1	<1	1.12	3.11	4.23	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.73	0.402	18.20	2.06	144.8	
	3/6/2014	90.30	4.83	ND	ND	85.47	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	5.39	0.215	11.43	6.06	212.6	
	6/12/2014	90.30	5.65	ND	ND	84.65	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	NS	NS	NS	NS	4.97	0.360	13.47	0.32	209.7	
	9/19/2014	90.30	10.90	ND	ND	79.40	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	21.5	1.18	<0.1	2.94	4.12	0.377	16.60	1.98	5.5	
	11/13/2014	90.30	8.55	ND	ND	81.75	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	17.8	2.97	<0.1	2.65	4.57	0.338	16.89	1.79	315.6	
	3/25/2015	90.30	5.22	ND	ND	85.08	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5	7.46	2.32	<0.1	0.867	5.73	0.239	10.18	7.25	195	
	6/25/2015	90.30	5.07	ND	ND	85.23	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	15.6	2.92	0.390	2.47	4.61	0.395	11.81	2.48	185.5	
	7/29/2015	90.30	6.17	ND	ND	84.13	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	19.4	12.8	0.109	1.85	5.02	0.411	16.07	1.65	186.7	
	10/29/2015	90.30	8.36	ND	ND	81.94	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5	27.8	10.4	--	3.16	6.05	0.397	17.49	1.19	13.8	

Notes:

µg/L - micrograms/liter
italic values - MDE Groundwater Clean-Up Standards
0.65 [1.63] - results from duplicate sample listed in brackets
BRL - Below laboratory reporting limits
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
DIPE - Di-Isopropyl Ether
ETBE - Ethyl Tertiary Butyl Ether
GW - Groundwater
J - Indicates an estimated value
MTBE - Methyl Tert Butyl Ether
NA - Not analyzed
ND - Not detected
<5 - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.
NM - Not monitored
NS - Not sampled
NSVD - Not surveyed to vertical datum
TAME - Tertiary Amyl Methyl Ether
TBA - Tertiary Butyl Alcohol

Table 1
Groundwater Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

		Gauging Data				
Well ID	**Date**	**Top of Casing Elevation (feet)**	**Depth to Water (feet)**	**Depth to Hydro-carbon (feet)**	**Hydro-carbon Thickness (feet)**	**Corrected GW Elevation (feet)**
INJ-1	2/22/2013	100.49	6.52	ND	ND	93.97
	5/1/2013	100.49	NM	ND	ND	NM
	8/6/2013	100.49	NM	ND	ND	NM
	10/3/2013	100.49	7.01	ND	ND	93.48
	3/6/2014	100.49	3.63	ND	ND	96.86
	6/12/2014	100.49	5.41	ND	ND	95.08
	9/18/2014	100.49	10.80	ND	ND	89.69
	11/13/2014	100.49	9.47	ND	ND	91.02
	3/25/2015	100.49	4.19	ND	ND	96.30
	6/25/2015	100.49	4.65	ND	ND	95.84
	7/29/2015	100.49	5.91	ND	ND	94.58
	10/29/2015	100.49	8.97	ND	ND	91.52
INJ-2	2/22/2013	101.50	4.60	ND	ND	96.90
	5/1/2013	101.50	NM	ND	ND	NM
	8/6/2013	101.50	NM	ND	ND	NM
	10/3/2013	101.50	3.38	ND	ND	98.12
	3/6/2014	101.50	3.04	ND	ND	98.46
	6/12/2014	101.50	3.01	ND	ND	98.49
	9/18/2014	101.50	4.44	ND	ND	97.06
	11/13/2014	101.50	3.52	ND	ND	97.98
	3/25/2015	101.50	2.95	ND	ND	98.55
	6/25/2015	101.50	2.81	ND	ND	98.69
	7/29/2015	101.50	3.15	ND	ND	98.35
	10/29/2015	101.50	3.23	ND	ND	98.27
INJ-3	2/22/2013	100.49	4.10	ND	ND	96.39
	5/1/2013	100.49	NM	ND	ND	NM
	8/6/2013	100.49	NM	ND	ND	NM
	10/3/2013	100.49	4.41	ND	ND	96.08
	3/6/2014	100.49	3.57	ND	ND	96.92
	6/12/2014	100.49	3.74	ND	ND	96.75
	9/18/2014	100.49	5.81	ND	ND	94.68
	11/13/2014	100.49	4.77	ND	ND	95.72
	3/25/2015	100.49	3.70	ND	ND	96.79
	6/25/2015	100.49	3.65	ND	ND	96.84
	7/29/2015	100.49	4.16	ND	ND	96.33
	10/29/2015	100.49	3.45	ND	ND	97.04

Notes:
ND - Not detected
NM - Not monitored

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
215 Bayview	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.19 J	<5	<0.5	<0.5	<0.5	<0.5	
223 Bayview	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.19	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.29 J	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.32 J	<5	NA	NA	NA	<0.5	
	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.18 J	<5	<0.5	<0.5	<0.5	<0.5	
223 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
237 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.11 J	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.11 J	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	
243 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.18 J	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.18 J	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.070 J	<5	<0.5	<0.5	<0.5	<0.5	
246 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.1	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.16 J	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.13 J	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
256 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	1.00	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.8	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.67	<5	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.76	<5	NA	NA	NA	<0.5	
259 Bayview	3/30/2005	0.1	0.081	<0.5	<0.5	0.2	15.5	41	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	21.1	68.1	NA	NA	NA	NA	
	8/29/2005	0.18 J	0.30 J	<0.5	0.15 J	0.63 J	16.8	52.8	NA	NA	NA	<0.5	
	9/26/2005	0.083	<0.5	<0.5	0.213	0.296	16.4	44.3	NA	NA	NA	NA	
	10/25/2005	<0.5	<0.5	<0.5	<0.5	BRL	19.3	38.6	NA	NA	NA	NA	
	11/14/2005	<0.5	<0.5	<0.5	<0.5	BRL	5.9	16.7	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	19.8	50.0	NA	NA	NA	NA	
	1/20/2006	<0.5	<0.5	<0.5	<0.5	BRL	13.3	44.3	NA	NA	NA	<0.5	
	3/3/2006	0.096 J	<0.5	<0.5	<0.5	0.096 J	16.9	53.6	NA	NA	NA	<0.5	
	4/3/2006	<0.5	<0.5	<0.5	<0.5	BRL	17.6	65.3	NA	NA	NA	<0.5	
	5/15/2006	0.087 J	<0.5	<0.5	<0.5	0.087 J	20.0	58.9	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	18.4	64.5	NA	NA	NA	<0.5	
	7/27/2006	0.083 J	<0.5	<0.5	<0.5	0.083 J	22.1	73.7	NA	NA	NA	<0.5	
	8/29/2006	<0.5	<0.5	<0.5	<0.5	BRL	23.7	98.6	NA	NA	NA	<0.5	
	9/26/2006	<0.5	<0.5	<0.5	<0.5	BRL	25.7	73.8	<0.5	<0.5	1.7	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	30.2	93.0	<0.5	<0.5	1.5	<0.5	
	11/30/2006	<0.5	<0.5	<0.5	<0.5	BRL	30.9	103	NA	NA	NA	<0.5	
	12/19/2006	0.084 J	<0.5	<0.5	<0.5	0.084 J	32.5	121	<0.5	<0.5	2.0	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	33.2	128	NA	NA	NA	<0.5	
	2/28/2007	<0.5	<0.5	<0.5	<0.5	BRL	38.6	133	NA	NA	NA	<0.5	
	3/15/2007	0.096 J	<0.5	<0.5	<0.5	0.096 J	33.1	140	0.14 J	<0.5	1.6	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
259 Bayview EFF	3/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/17/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/22/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	9/19/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	4.7 J	NA	NA	NA	<0.5	
	11/29/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	22.4	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.22 J	4.8 J	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.18 J	100	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.15 J	111	<0.5	<0.5	<0.5	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	7/31/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	10.4	<0.5	<0.5	<0.5	<0.5	
	10/13/2009	<0.5	0.25 J	<0.5	<0.5	0.25 J	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	1/13/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	7/22/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/23/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	16.1	<0.5	<0.5	<0.5	<0.5	
	3/1/2011	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	5/19/2011	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	7/12/2011	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	
	10/24/2011	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	
	2/8/2012	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	
	5/23/2012	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	8/14/2012	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<2	<5	
	10/4/2012	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	2/22/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	26.1	<0.5	<0.5	<0.5	<5	
	5/1/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	8/6/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	10/3/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	3/6/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	6/12/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	9/19/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	18.5	<0.5	<0.5	<0.5	<5	
	11/13/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	3/25/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	6/25/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	7/29/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	10/29/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
259 Bayview INF	3/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	32.2	136	NA	NA	NA	<0.5	
	4/17/2007	<0.5	<0.5	<0.5	<0.5	BRL	29.9	104	NA	NA	NA	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	38.0	145	NA	NA	NA	<0.5	
	6/22/2007	<0.5	<0.5	<0.5	<0.5	BRL	36.8	133	NA	NA	NA	<0.5	
	9/19/2007	<0.5	<0.5	<0.5	<0.5	BRL	39.9	158	NA	NA	NA	<0.5	
	10/23/2007	0.081 J	<0.5	<0.5	<0.5	0.081 J	39.3	142	NA	NA	NA	<0.5	
	11/29/2007	<0.5	<0.5	<0.5	<0.5	BRL	37.6	189	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	35.0	148	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	37.9	105	0.093 J	<0.5	1.4	<0.5	
	9/23/2008	0.087 J	<0.5	<0.5	<0.5	0.087 J	47.3	149	0.082 J	<0.5	1.2	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	38.2	131	0.11 J	<0.5	1.6	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	35.8	102	<0.5	<0.5	1.3	<0.5	
	4/21/2009	0.079 J	<0.5	<0.5	<0.5	0.079 J	44.6	121	0.095 J	<0.5	1.5	<0.5	
	7/31/2009	<0.5	<0.5	<0.5	<0.5	BRL	34.5	134	0.075 J	<0.5	1.2	<0.5	
	10/13/2009	<0.5	<0.5	<0.5	<0.5	BRL	35.6	118	0.11 J	<0.5	1.3	<0.5	
	1/13/2010	<0.5	<0.5	<0.5	<0.5	BRL	50.9	173	<0.5	<0.5	1.6	<0.5	
	4/21/2010	<0.5	<0.5	<0.5	<0.5	BRL	40.6	105	0.19 J	<0.5	1.5	<0.5	
	7/22/2010	0.083 J	<0.5	<0.5	<0.5	0.083 J	40.3	123	0.19 J	<0.5	1.4	<0.5	
	11/23/2010	<0.5	<0.5	<0.5	<0.5	BRL	39.6	91	0.12 J	<0.5	1.2	<0.5	
	3/1/2011	<0.5	<0.5	<0.5	<1	BRL	43.6	59.9	1.58	<0.5	<0.5	<5	
	5/19/2011	<0.5	<0.5	<0.5	<1	BRL	44.8	86.2	<0.5	<0.5	1.63	<5	
	7/12/2011	<1	<1	<1	<3	BRL	43.2	114	<1	<1	1.85	<5	
	10/24/2011	<1	<1	<1	<3	BRL	42.6	99.3	1.49	<1	<1	<5	
	2/8/2012	<1	<1	<1	<3	BRL	39.2	90.1	1.12	<1	<1	<5	
	5/23/2012	<0.5	<0.5	<0.5	<1	BRL	45.4	65.2	<0.5	<0.5	1.68	<5	
	8/14/2012	<1	<1	<1	<3	BRL	36	51.6	<1	<1	<2	<5	
	10/4/2012	<0.5	<0.5	<0.5	<1	BRL	47.9	70.5	1.38	<0.5	<0.5	<5	
	2/22/2013	<0.5	<0.5	<0.5	<1	BRL	47.7	64.8	1.3	<0.5	<0.5	<5	
	5/1/2013	<0.5	<0.5	<0.5	<1	BRL	49	134	<0.5	<0.5	1.32	<5	
	8/6/2013	<0.5	<0.5	<0.5	<1	BRL	51.8	154	<0.5	<0.5	1.49	<5	
	10/3/2013	<0.5	<0.5	<0.5	<1	BRL	38.4	90.6	<0.5	<0.5	1.36	<5	
	3/6/2014	<0.5	<0.5	<0.5	<1	BRL	48	117	<0.5	<0.5	1.3	<5	
	6/12/2014	<0.5	<0.5	<0.5	<1	BRL	52.7	155	<0.5	<0.5	1.63	<5	
	9/19/2014	<0.5	<0.5	<0.5	<1	BRL	54.1	138	<0.5	<0.5	1.45	<5	
	11/13/2014	<0.5	<0.5	<0.5	<1	BRL	47.9	109	<0.5	<0.5	1.20	<5	
	3/25/2015	<0.5	<0.5	<0.5	<1	BRL	51.0	187	<0.5	<0.5	1.41	<5	
	6/25/2015	<0.5	<0.5	<0.5	<1	BRL	59.3	135	<0.5	<0.5	1.49	<5	
	7/29/2015	<0.5	<0.5	<0.5	<1	BRL	43.7	101	<0.5	<0.5	1.15	<5	
	10/29/2015	<0.5	<0.5	<0.5	<1	BRL	75.9	225	<0.5	<0.5	1.65	<5	

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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
259 Bayview MID	3/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/17/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/22/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	9/19/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	56.3	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	85.5	NA	NA	NA	<0.5	
	11/29/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	156	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.089 J	3.7 J	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	10.0	81.4	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.49 J	119	<0.5	<0.5	<0.5	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	4.3 J	<0.5	<0.5	<0.5	<0.5	
	7/31/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	93.3	<0.5	<0.5	<0.5	<0.5	
	10/13/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	1/13/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	58.3	<0.5	<0.5	<0.5	<0.5	
	4/21/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	20.5	<0.5	<0.5	<0.5	<0.5	
	7/22/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/23/2010	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	101	<0.5	<0.5	<0.5	<0.5	
	3/1/2011	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	5/19/2011	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	7/12/2011	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5	
	10/24/2011	<1	<1	<1	<3	BRL	<1	63.4	<1	<1	<1	<5	
	2/8/2012	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5	
	5/23/2012	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	8/14/2012	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<2	<5	
	10/4/2012	<0.5	<0.5	<0.5	<1	BRL	<0.5	27.2	<0.5	<0.5	<0.5	<5	
	2/22/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	76.9	<0.5	<0.5	<0.5	<5	
	5/1/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	8/6/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	10/3/2013	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	3/6/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	75.8	<0.5	<0.5	<0.5	<5	
	6/12/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	56.5	<0.5	<0.5	<0.5	<5	
	9/19/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	128	<0.5	<0.5	<0.5	<5	
	11/13/2014	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	3/25/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	6/25/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	7/29/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	<10	<0.5	<0.5	<0.5	<5	
	10/29/2015	<0.5	<0.5	<0.5	<1	BRL	<0.5	25.0	<0.5	<0.5	<0.5	<5	

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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
261 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	1.1	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	1.2	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	1.7	2.6	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	1.6	2.8 J	NA	NA	NA	<0.5	
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	2.6	6.4	NA	NA	NA	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	4.6	16.3	<0.5	<0.5	<0.5	<0.5	
	12/9/2008	<0.5	<0.5	<0.5	<0.5	BRL	5.0	18.5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	4.0	12.4	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	5.1	16.0	<0.5	<0.5	<0.5	<0.5	
	7/31/2009	<0.5	<0.5	<0.5	<0.5	BRL	5.9	17.1	<0.5	<0.5	0.34 J	<0.5	
	10/13/2009	<0.5	<0.5	<0.5	<0.5	BRL	5.2	18.3	<0.5	<0.5	0.22 J	<0.5	
	1/13/2010	<0.5	<0.5	<0.5	<0.5	BRL	6.7	21.8	<0.5	<0.5	0.31 J	<0.5	
	4/21/2010	<0.5	<0.5	<0.5	<0.5	BRL	6.4	16.0	<0.5	<0.5	0.34 J	<0.5	
	7/22/2010	<0.5	<0.5	<0.5	<0.5	BRL	7.0	21.3	<0.5	<0.5	0.30 J	<0.5	
	11/23/2010	<0.5	<0.5	<0.5	<0.5	BRL	6.4	19.4	<0.5	<0.5	0.25 J	<0.5	
	3/1/2011	<0.5	<0.5	<0.5	<1	BRL	7.2	11.6	<0.5	<0.5	<0.5	<5	
	5/19/2011	<0.5	<0.5	<0.5	<1	BRL	6.8	15.0	<0.5	<0.5	<0.5	<5	
	7/12/2011	<1	<1	<1	<3	BRL	7.41	<20	<1	<1	<1	<5	
	10/24/2011	<1	<1	<1	<3	BRL	8.85	<10	<1	<1	<1	<5	
	2/8/2012	<1	<1	<1	<3	BRL	6.03	<10	<1	<1	<1	<5	
	5/23/2012	<0.5	<0.5	<0.5	<1	BRL	10.2	21.6	<0.5	<0.5	<0.5	<5	
	8/14/2012	<1	<1	<1	<3	BRL	8.03	23.1	<1	<1	<1	<5	
	10/4/2012	<0.5	<0.5	<0.5	<1	BRL	8.71	14.5	<0.5	<0.5	<0.5	<5	
	2/22/2013	<0.5	<0.5	<0.5	<1	BRL	10.1	28.6	<0.5	<0.5	<0.5	<5	
	5/1/2013	<0.5	<0.5	<0.5	<1	BRL	7.81	29.5	<0.5	<0.5	<0.5	<5	
	8/6/2013	<0.5	<0.5	<0.5	<1	BRL	9.01	51	<0.5	<0.5	<0.5	<5	
	10/3/2013	<0.5	<0.5	<0.5	<1	BRL	7.30	15.5	<0.5	<0.5	<0.5	<5	
	3/6/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	Unable to sample (spigot shut off)
	6/12/2014	<0.5	<0.5	<0.5	<1	BRL	8.24	19.4	<0.5	<0.5	<0.5	<5	
	9/19/2014	<0.5	<0.5	<0.5	<1	BRL	10.7	31.3	<0.5	<0.5	<0.5	<5	
	11/13/2014	<0.5	<0.5	<0.5	<1	BRL	9.09	23.8	<0.5	<0.5	<0.5	<5	
	3/25/2015	<0.5	<0.5	<0.5	<1	BRL	10.1	36.0	<0.5	<0.5	<0.5	<5	
	6/25/2015	<0.5	<0.5	<0.5	<1	BRL	9.79	29.6	<0.5	<0.5	<0.5	<5	
	7/29/2015	<0.5	<0.5	<0.5	<1	BRL	8.38	14.5	<0.5	<0.5	<0.5	<5	
	10/29/2015	<0.5	<0.5	<0.5	<1	BRL	13.6	36.6	<0.5	<0.5	<0.5	<5	

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265 Bayview	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.57	<5	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.47	<5	NA	NA	NA	NA	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.57	<5	NA	NA	NA	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.35 J	<5	<0.5	<0.5	<0.5	<0.5	
280 Bayview EFF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	ND	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.34 J	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/27/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	7/27/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	

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Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
280 Bayview INF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.27 J	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	ND	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.32 J	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.19 J	<5	NA	NA	NA	<0.5	
	3/27/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.22 J	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.36 J	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.24 J	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.24 J	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.23 J	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.17 J	<5	NA	NA	NA	<0.5	
	7/27/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.15 J	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.15 J	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.15 J	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.18 J	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.13 J	<5	<0.5	<0.5	<0.5	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.14 J	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	0.052 J	<0.5	<0.5	0.052 J	0.14 J	<5	<0.5	<0.5	<0.5	<0.5	
280 Bayview MID	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	7/27/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.090 J	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/20/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	0.10 J	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
281 Bayview EFF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	4/3/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
281 Bayview INF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.5	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	ND	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.64	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.76	<5	NA	NA	NA	<0.5	
	4/3/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.57	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.36 J	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.24 J	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.74	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.69	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.67	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.70	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.66	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.70	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.66	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	0.75	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	0.73	<5	<0.5	<0.5	<0.5	<0.5	
281 Bayview MID	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.22 J	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
285 Bayview EFF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	NA	
	9/26/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/27/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.31 J	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

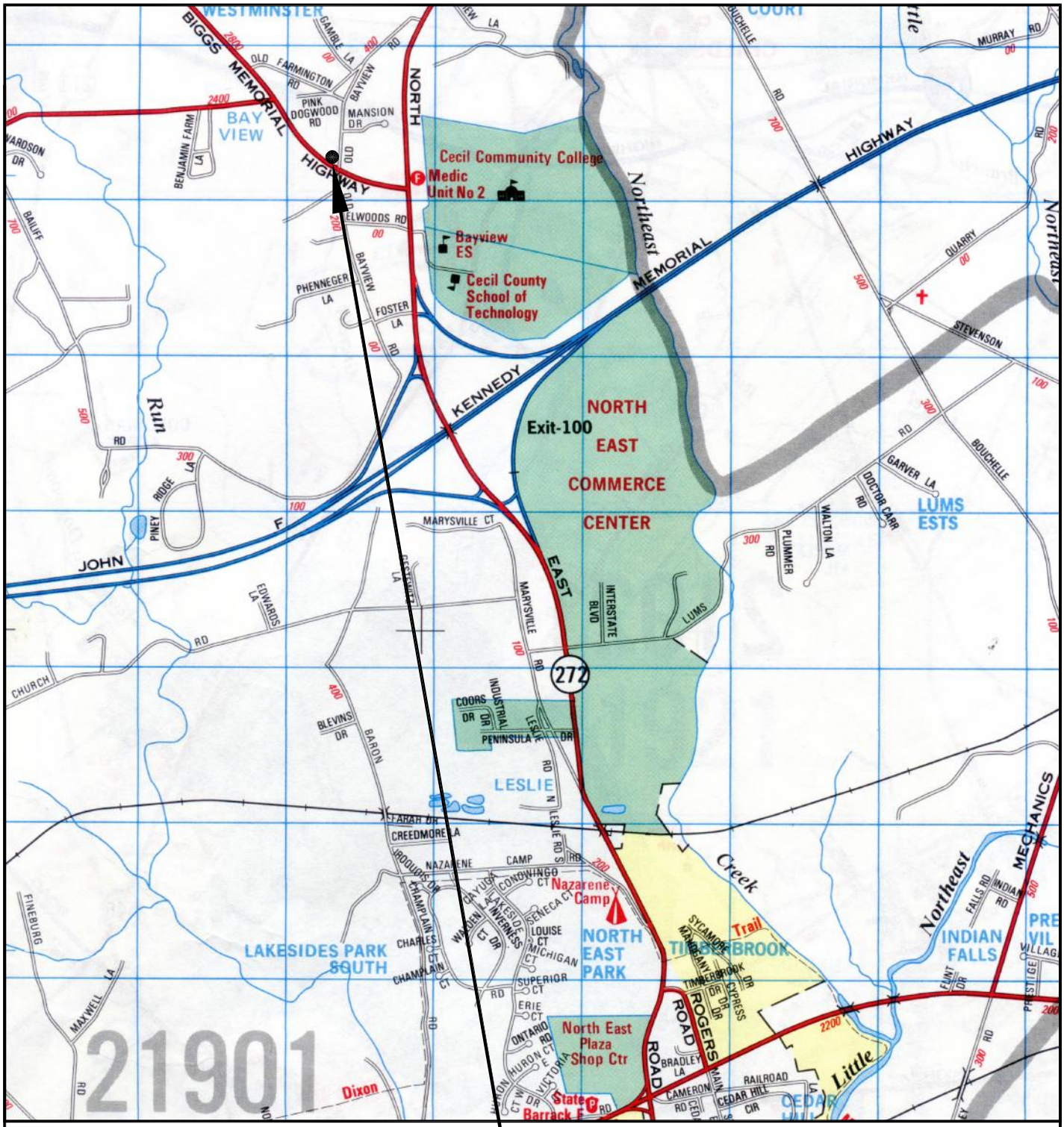
Well ID	Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	Total BTEX (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Naph-thalene (µg/L)	Comments
285 Bayview INF	3/30/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.66	<5	NA	NA	NA	NA	
	6/23/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.53	<5	NA	NA	NA	NA	
	9/26/2005	1.4	<0.5	<0.5	<0.5	1.4	1.0	ND(5)	NA	NA	NA	NA	
	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.80	<5	NA	NA	NA	<0.5	
	3/27/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.36 J	<5	NA	NA	NA	<0.5	
	6/12/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.72	<5	NA	NA	NA	<0.5	
	10/31/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.71	<5	<0.5	<0.5	<0.5	<0.5	
	12/19/2006	<0.5	<0.5	<0.5	<0.5	BRL	0.27 J	<5	<0.5	<0.5	<0.5	<0.5	
	3/15/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.71	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	4/21/2009	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
285 Bayview MID	5/31/2007	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	NA	NA	NA	<0.5	
	10/23/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.11 J	<5	NA	NA	NA	<0.5	
	3/24/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.17 J	<5	NA	NA	NA	<0.5	
	6/30/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.26 J	<5	<0.5	<0.5	<0.5	<0.5	
	9/23/2008	<0.5	<0.5	<0.5	<0.5	BRL	<0.5	<5	<0.5	<0.5	<0.5	<0.5	
	11/18/2008	<0.5	<0.5	<0.5	<0.5	BRL	0.20 J	<5	<0.5	<0.5	<0.5	<0.5	
	2/11/2009	<0.5	<0.5	<0.5	<0.5	BRL	0.16 J	<5	<0.5	<0.5	<0.5	<0.5	
	4/24/2009	<0.5	<0.5	<0.5	<0.5	BRL	0.19 J	<5	<0.5	<0.5	<0.5	<0.5	

Table 2
Potable Water Monitoring and Analytical Data
Exxon Service Station #14489
285 Old Bayview Drive
North East, Maryland

Notes:

µg/L - micrograms/liter
BRL - Below laboratory reporting limits
BTEX - Benzene, toluene, ethylbenzene, and total xylenes
DIPE - Di-Isopropyl Ether
ETBE - Ethyl Tertiary Butyl Ether
J - Indicates an estimated value
MTBE - Methyl Tert Butyl Ether
NA - Not analyzed
<5 - Not detected at or above the laboratory reporting limit, laboratory reporting limit included.
NS - Not sampled
TAME - Tertiary Amyl Methyl Ether
TBA - Tertiary Butyl Alcohol

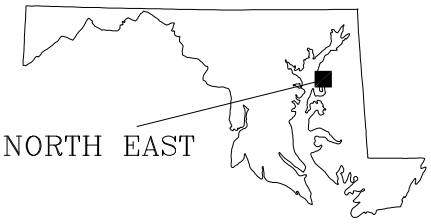
Figures



MAP SOURCE: ADC Cecil Co. MD. Street Map Book

0 1,000 2,000

SCALE: FEET



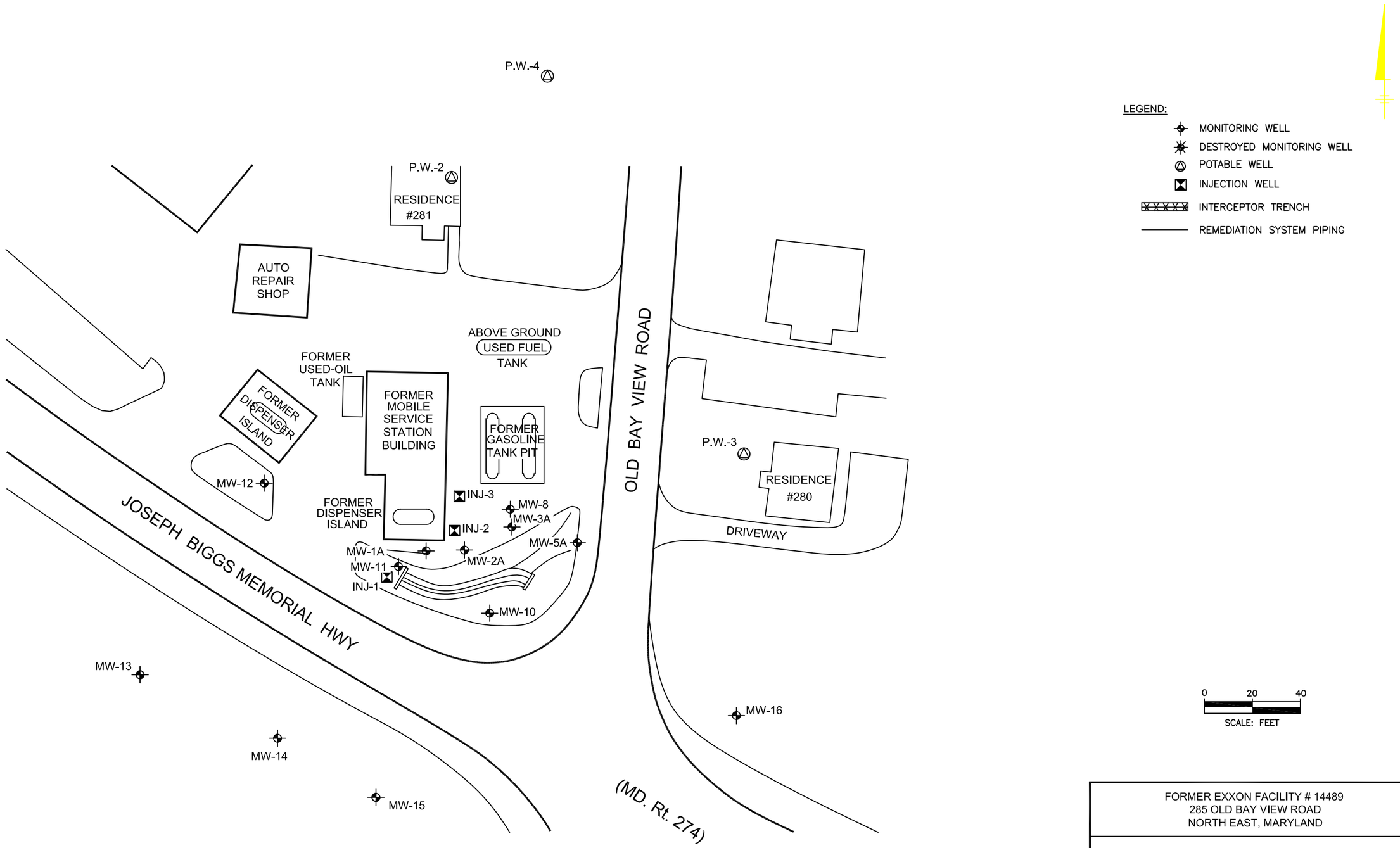
FORMER EXXON FACILITY # 14489
285 OLD BAY VIEW ROAD
NORTH EAST, MARYLAND

LOCAL AREA MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE 1

CITY:(Reqd) DIV/GROUP:(Reqd) DB:(Reqd) LD:(Opt) PIC:(Opt) PM:(Reqd) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\BALTIMORE\ACT\B0085851\0010\00002\285 Old Bay View RD-Site-Loc.dwg LAYOUT: 1 SAVED: 4/28/2011 1:20 PM ACADVER: 18.0S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ACAD.CTB PLOTTED: 4/29/2011 10:57 AM BY: GOFORTH, JOHN



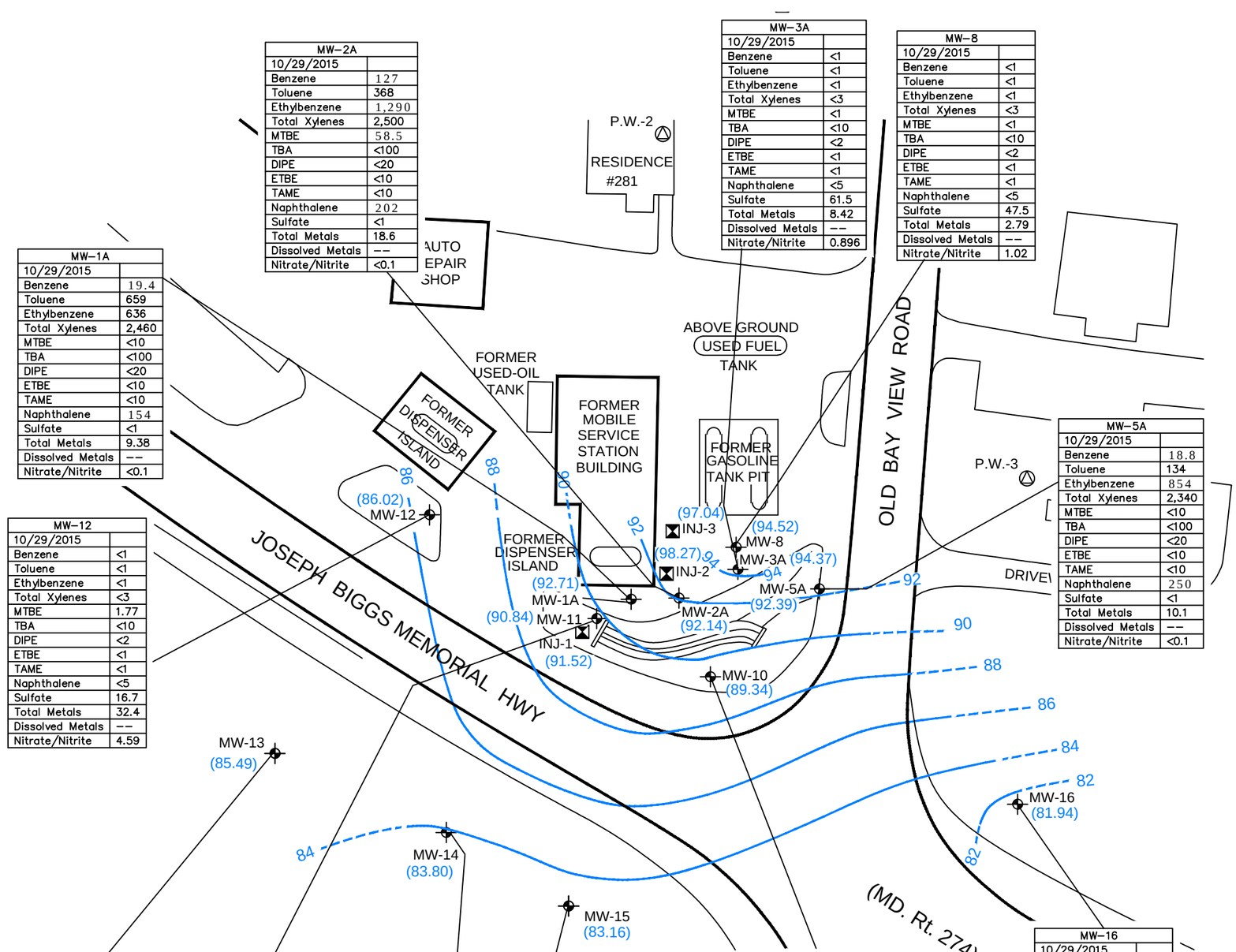
FORMER EXXON FACILITY # 14489
285 OLD BAY VIEW ROAD
NORTH EAST, MARYLAND

SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:(Req) DIV/GROUP:(Req) DB:(Req) LD:(Opt) PIC:(Opt) PM:(Req) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED:
G:\ENVCAD\Tallahassee-FL_ACT\B0085851\0010\00006\B0085851_0010_00003_W01_402015.dwg LAYOUT: 2 SAVED: 12/4/2015 1:49 PM ACADVER: 18.1S (LMS TECH)
12/14/2015 12:18 PM BY: BERNDGEN, WENDY
XREFS: PROJECTNAME: ----



LEGEND:

- MONITORING WELL
- DESTROYED MONITORING WELL
- POTABLE WELL
- INJECTION WELL
- INTERCEPTOR TRENCH
- REMEDIATION SYSTEM PIPING
- 90 — GROUNDWATER ELEVATION CONTOUR (FEET ABOVE MEAN SEA LEVEL)
- (94.37) GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)

MW-2A	
10/29/2015	
Benzene	127
Toluene	368
Ethylbenzene	1,290
Total Xylenes	2,500
MTBE	58.5
TBA	<100
DIPE	<20
ETBE	<10
TAME	<10
Naphthalene	202
Sulfate	<1
Total Metals	18.6
Dissolved Metals	--
Nitrate/Nitrite	<0.1

MW-3A	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	61.5
Total Metals	8.42
Dissolved Metals	--
Nitrate/Nitrite	0.896

MW-8	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	47.5
Total Metals	2.79
Dissolved Metals	--
Nitrate/Nitrite	1.02

MW-1A	
10/29/2015	
Benzene	19.4
Toluene	659
Ethylbenzene	636
Total Xylenes	2,460
MTBE	<10
TBA	<100
DIPE	<20
ETBE	<10
TAME	<10
Naphthalene	154
Sulfate	<1
Total Metals	9.38
Dissolved Metals	--
Nitrate/Nitrite	<0.1

MW-12	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	1.77
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	16.7
Total Metals	32.4
Dissolved Metals	--
Nitrate/Nitrite	4.59

MW-5A	
10/29/2015	
Benzene	18.8
Toluene	134
Ethylbenzene	854
Total Xylenes	2,340
MTBE	<10
TBA	<100
DIPE	<20
ETBE	<10
TAME	<10
Naphthalene	250
Sulfate	<1
Total Metals	10.1
Dissolved Metals	--
Nitrate/Nitrite	<0.1

Notes	
all results listed in µg/L (micrograms per liter)	
[254] – MDE Residential Groundwater Standard	
MDE – Maryland Department of the Environment	
boldface values exceed RBSL	
MTBE	methyl tertiary butyl ether
TBA	Tertiary Butyl Alcohol
TAME	Tertiary Amyl Methyl Ether
ETBE	Ethyl Tertiary Butyl Ether
DIPE	Di-Isopropyl Ether
TPH-GRO	total petroleum hydrocarbons – gasoline range organics
TPH-DRO	total petroleum hydrocarbons – diesel range organics

MDE Residential Groundwater Standards	
Benzene	5
Toluene	1000
Ethylbenzene	700
Total Xylenes	10000
MTBE	20
TBA	--
TAME	--
ETBE	--
DIPE	--
Naphthalene	0.65
TPH-GRO	47
TPH-DRO	47

NOTE:

1. THE GROUNDWATER ELEVATIONS FOR INJECTION WELLS INJ-1, INJ-2, AND INJ-3 WERE NOT USED FOR CONTOURING.

0 20 40

SCALE: FEET

MW-13	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	18.1
Total Metals	3.63
Dissolved Metals	--
Nitrate/Nitrite	0.413

MW-11	
10/29/2015	
Benzene	4.37
Toluene	2.77
Ethylbenzene	114
Total Xylenes	72.2
MTBE	20.3
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	44.5
Sulfate	5.96
Total Metals	7.52
Dissolved Metals	--
Nitrate/Nitrite	0.205

MW-14	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	1.43
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	15.7
Total Metals	20.7
Dissolved Metals	--
Nitrate/Nitrite	2.13

MW-15	
10/29/2015	
Benzene	1.96
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	26.7
Total Metals	7.89
Dissolved Metals	--
Nitrate/Nitrite	0.468

MW-10	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	10.2
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	11.8
Total Metals	5.58
Dissolved Metals	--
Nitrate/Nitrite	0.112

MW-16	
10/29/2015	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5
Sulfate	27.8
Total Metals	10.4
Dissolved Metals	--
Nitrate/Nitrite	3.16

FORMER EXXON FACILITY # 14489
285 OLD BAY VIEW ROAD
NORTH EAST, MARYLAND

GROUNDWATER ELEVATION CONTOURS AND ANALYTICAL DATA 29 OCTOBER 2015

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY:(Req) DIV/GROUP:(Req) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACT\B0085851\0010\00006\B0085851_0010_00003_W01_4Q2015.dwg LAYOUT: 3 SAVED: 12/4/2015
PLOTTED: 12/14/2015 12:39 PM BY: BERNDGEN, WENDY ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB
XREFS: PROJECTNAME: ---

Appendix A

TestAmerica Laboratory Analytical Reports (10 - 13 November 2015)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-90930-1
Client Project/Site: 14489 - North East, MD

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, North Carolina 27607-5073

Attn: Hillary Goodell

Jennifer Huckaba

Authorized for release by:
11/13/2015 10:03:30 PM

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-90930-1	MW1A(102915)	Water	10/29/15 14:50	10/30/15 09:45
490-90930-2	MW2A(102915)	Water	10/29/15 13:55	10/30/15 09:45
490-90930-3	MW3A(102915)	Water	10/29/15 10:50	10/30/15 09:45
490-90930-4	MW5A(102915)	Water	10/29/15 14:10	10/30/15 09:45
490-90930-5	MW8A(102915)	Water	10/29/15 13:10	10/30/15 09:45
490-90930-6	MW10A(102915)	Water	10/29/15 13:45	10/30/15 09:45
490-90930-7	MW11A(102915)	Water	10/29/15 15:25	10/30/15 09:45
490-90930-8	MW12A(102915)	Water	10/29/15 15:15	10/30/15 09:45
490-90930-9	MW13A(102915)	Water	10/29/15 12:10	10/30/15 09:45
490-90930-10	MW14A(102915)	Water	10/29/15 11:30	10/30/15 09:45
490-90930-11	MW15A(102915)	Water	10/29/15 10:30	10/30/15 09:45
490-90930-12	MW16A(102915)	Water	10/29/15 15:00	10/30/15 09:45
490-90930-13	DUP01(102915)	Water	10/29/15 12:00	10/30/15 09:45
490-90930-14	RB01(102915)	Water	10/29/15 15:40	10/30/15 09:45
490-90930-15	TB(102915)	Water	10/29/15 00:01	10/30/15 09:45

Job ID: 490-90930-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-90930-1

Comments
No additional comments.

Receipt
The samples were received on 10/30/2015 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the 1 cooler at receipt time was 0.8º C. There was a 2nd cooler that arrived on 11/3/15 and was received at 16.9º C.

Receipt Exceptions

All of the following samples were missing containers upon receipt of the samples on 10/30/15. There was a cooler missing. It was not received until 11/3/15 above temperature at 16.9° C. The containers missing were the ones for the lead, nitrate/nitrite and sulfate. Per client request, run these samples anyway: MW1A(102915) (490-90930-1), MW2A(102915) (490-90930-2), MW3A(102915) (490-90930-3), MW5A(102915) (490-90930-4), MW8A(102915) (490-90930-5), MW10A(102915) (490-90930-6), MW13A(102915) (490-90930-9), MW14A(102915) (490-90930-10), MW15A(102915) (490-90930-11), MW16A(102915) (490-90930-12) and DUP01(102915) (490-90930-13)

One VOA for the following sample was received broken: 490-90930-2-C. There was sufficient sample remaining to run VOCs.

GC/MS VOA
Method(s) 8260B: The following samples was diluted due to the nature of the sample matrix: MW1A(102915) (490-90930-1), MW2A(102915) (490-90930-2), MW5A(102915) (490-90930-4) and DUP01(102915) (490-90930-13). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-295526 recovered outside control limits for the following analytes: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

HPLC/IC
Method(s) 9056A: The following samples were diluted due to the nature of the sample matrix: MW10A(102915) (490-90930-6), MW13A(102915) (490-90930-9) and MW14A(102915) (490-90930-10). Elevated reporting limits (RLs) are provided.

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

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

General Chemistry
Method(s) 353.2, SM 4500 NO3 F: The matrix spike (MS) recovery for analytical batch 490-297237 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 353.2: The continuing calibration blank for analytical batch 490-297217 contained Nitrate/Nitrite above the reporting limit (RL). None of the samples associated with this method blank contained the target compound; therefore, re-extraction and/or re-analysis of samples were not performed: MW1A(102915) (490-90930-1) and MW5A(102915) (490-90930-4).

Method(s) 353.2: The matrix spike duplicate (MSD) recovery for analytical batch 490-297862 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 490-90930-1 (Continued)

Laboratory: TestAmerica Nashville (Continued)

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

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
*	LCS or LCSD is outside acceptance limits.

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW1A(102915)

Date Collected: 10/29/15 14:50
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250		ug/L			11/04/15 19:27	10
Benzene	**19.4**		10.0		ug/L			11/04/15 19:27	10
Bromobenzene	ND		10.0		ug/L			11/04/15 19:27	10
Bromochloromethane	ND		10.0		ug/L			11/04/15 19:27	10
Bromodichloromethane	ND		10.0		ug/L			11/04/15 19:27	10
Bromoform	ND		10.0		ug/L			11/04/15 19:27	10
Bromomethane	ND		10.0		ug/L			11/04/15 19:27	10
2-Butanone (MEK)	ND		500		ug/L			11/04/15 19:27	10
Carbon disulfide	ND		10.0		ug/L			11/04/15 19:27	10
Carbon tetrachloride	ND		10.0		ug/L			11/04/15 19:27	10
Chlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
Chlorodibromomethane	ND		10.0		ug/L			11/04/15 19:27	10
Chloroethane	ND		10.0		ug/L			11/04/15 19:27	10
Chloroform	ND		10.0		ug/L			11/04/15 19:27	10
Chloromethane	ND		10.0		ug/L			11/04/15 19:27	10
2-Chlorotoluene	ND		10.0		ug/L			11/04/15 19:27	10
4-Chlorotoluene	ND		10.0		ug/L			11/04/15 19:27	10
cis-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 19:27	10
cis-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 19:27	10
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/04/15 19:27	10
1,2-Dibromoethane (EDB)	ND		10.0		ug/L			11/04/15 19:27	10
Dibromomethane	ND		10.0		ug/L			11/04/15 19:27	10
1,2-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
1,3-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
1,4-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
Dichlorodifluoromethane	ND	*	10.0		ug/L			11/04/15 19:27	10
1,1-Dichloroethane	ND		10.0		ug/L			11/04/15 19:27	10
1,2-Dichloroethane	ND		10.0		ug/L			11/04/15 19:27	10
1,1-Dichloroethene	ND		10.0		ug/L			11/04/15 19:27	10
1,2-Dichloropropane	ND		10.0		ug/L			11/04/15 19:27	10
1,3-Dichloropropane	ND		10.0		ug/L			11/04/15 19:27	10
2,2-Dichloropropane	ND		10.0		ug/L			11/04/15 19:27	10
1,1-Dichloropropene	ND		10.0		ug/L			11/04/15 19:27	10
Diisopropyl ether	ND		20.0		ug/L			11/04/15 19:27	10
Ethylbenzene	**636**		10.0		ug/L			11/04/15 19:27	10
Ethyl tert-butyl ether	ND		10.0		ug/L			11/04/15 19:27	10
Hexachlorobutadiene	ND		20.0		ug/L			11/04/15 19:27	10
2-Hexanone	ND		100		ug/L			11/04/15 19:27	10
Isopropylbenzene	**53.6**		10.0		ug/L			11/04/15 19:27	10
Methylene Chloride	ND		50.0		ug/L			11/04/15 19:27	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			11/04/15 19:27	10
Methyl tert-butyl ether	ND		10.0		ug/L			11/04/15 19:27	10
Naphthalene	**154**		50.0		ug/L			11/04/15 19:27	10
n-Butylbenzene	**51.0**		10.0		ug/L			11/04/15 19:27	10
N-Propylbenzene	**129**		10.0		ug/L			11/04/15 19:27	10
p-Isopropyltoluene	ND		10.0		ug/L			11/04/15 19:27	10
sec-Butylbenzene	**11.4**		10.0		ug/L			11/04/15 19:27	10
Styrene	ND		10.0		ug/L			11/04/15 19:27	10
Tert-amyl methyl ether	ND		10.0		ug/L			11/04/15 19:27	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW1A(102915)

Date Collected: 10/29/15 14:50
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		100		ug/L			11/04/15 19:27	10
tert-Butylbenzene	ND		10.0		ug/L			11/04/15 19:27	10
1,1,1,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 19:27	10
1,1,2,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 19:27	10
Tetrachloroethene	ND		10.0		ug/L			11/04/15 19:27	10
Toluene	**659**		10.0		ug/L			11/04/15 19:27	10
trans-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 19:27	10
trans-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 19:27	10
1,2,3-Trichlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
1,2,4-Trichlorobenzene	ND		10.0		ug/L			11/04/15 19:27	10
1,1,1-Trichloroethane	ND		10.0		ug/L			11/04/15 19:27	10
1,1,2-Trichloroethane	ND		10.0		ug/L			11/04/15 19:27	10
Trichloroethene	ND		10.0		ug/L			11/04/15 19:27	10
Trichlorofluoromethane	ND		10.0		ug/L			11/04/15 19:27	10
1,2,3-Trichloropropane	ND		10.0		ug/L			11/04/15 19:27	10
1,2,4-Trimethylbenzene	**1420**		10.0		ug/L			11/04/15 19:27	10
1,3,5-Trimethylbenzene	**419**		10.0		ug/L			11/04/15 19:27	10
Vinyl chloride	ND		10.0		ug/L			11/04/15 19:27	10
Xylenes, Total	**2460**		150		ug/L			11/05/15 14:19	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/04/15 19:27*	*10*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/05/15 14:19*	*50*
Dibromofluoromethane (Surr)	*97*		*70 - 130*		*11/04/15 19:27*	*10*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/05/15 14:19*	*50*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/04/15 19:27*	*10*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*11/05/15 14:19*	*50*
Toluene-d8 (Surr)	*96*		*70 - 130*		*11/04/15 19:27*	*10*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/05/15 14:19*	*50*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/09/15 20:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**9.38**		0.100		mg/L		11/03/15 13:30	11/04/15 17:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 13:17	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW2A(102915)

Date Collected: 10/29/15 13:55
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250		ug/L			11/04/15 19:53	10
Benzene	**127**		10.0		ug/L			11/04/15 19:53	10
Bromobenzene	ND		10.0		ug/L			11/04/15 19:53	10
Bromochloromethane	ND		10.0		ug/L			11/04/15 19:53	10
Bromodichloromethane	ND		10.0		ug/L			11/04/15 19:53	10
Bromoform	ND		10.0		ug/L			11/04/15 19:53	10
Bromomethane	ND		10.0		ug/L			11/04/15 19:53	10
2-Butanone (MEK)	ND		500		ug/L			11/04/15 19:53	10
Carbon disulfide	ND		10.0		ug/L			11/04/15 19:53	10
Carbon tetrachloride	ND		10.0		ug/L			11/04/15 19:53	10
Chlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
Chlorodibromomethane	ND		10.0		ug/L			11/04/15 19:53	10
Chloroethane	ND		10.0		ug/L			11/04/15 19:53	10
Chloroform	ND		10.0		ug/L			11/04/15 19:53	10
Chloromethane	ND		10.0		ug/L			11/04/15 19:53	10
2-Chlorotoluene	ND		10.0		ug/L			11/04/15 19:53	10
4-Chlorotoluene	ND		10.0		ug/L			11/04/15 19:53	10
cis-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 19:53	10
cis-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 19:53	10
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/04/15 19:53	10
1,2-Dibromoethane (EDB)	ND		10.0		ug/L			11/04/15 19:53	10
Dibromomethane	ND		10.0		ug/L			11/04/15 19:53	10
1,2-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
1,3-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
1,4-Dichlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
Dichlorodifluoromethane	ND	*	10.0		ug/L			11/04/15 19:53	10
1,1-Dichloroethane	ND		10.0		ug/L			11/04/15 19:53	10
1,2-Dichloroethane	ND		10.0		ug/L			11/04/15 19:53	10
1,1-Dichloroethene	ND		10.0		ug/L			11/04/15 19:53	10
1,2-Dichloropropane	ND		10.0		ug/L			11/04/15 19:53	10
1,3-Dichloropropane	ND		10.0		ug/L			11/04/15 19:53	10
2,2-Dichloropropane	ND		10.0		ug/L			11/04/15 19:53	10
1,1-Dichloropropene	ND		10.0		ug/L			11/04/15 19:53	10
Diisopropyl ether	ND		20.0		ug/L			11/04/15 19:53	10
Ethylbenzene	**1290**		10.0		ug/L			11/04/15 19:53	10
Ethyl tert-butyl ether	ND		10.0		ug/L			11/04/15 19:53	10
Hexachlorobutadiene	ND		20.0		ug/L			11/04/15 19:53	10
2-Hexanone	ND		100		ug/L			11/04/15 19:53	10
Isopropylbenzene	**32.6**		10.0		ug/L			11/04/15 19:53	10
Methylene Chloride	ND		50.0		ug/L			11/04/15 19:53	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			11/04/15 19:53	10
Methyl tert-butyl ether	**58.5**		10.0		ug/L			11/04/15 19:53	10
Naphthalene	**202**		50.0		ug/L			11/04/15 19:53	10
n-Butylbenzene	ND		10.0		ug/L			11/04/15 19:53	10
N-Propylbenzene	**58.5**		10.0		ug/L			11/04/15 19:53	10
p-Isopropyltoluene	ND		10.0		ug/L			11/04/15 19:53	10
sec-Butylbenzene	ND		10.0		ug/L			11/04/15 19:53	10
Styrene	ND		10.0		ug/L			11/04/15 19:53	10
Tert-amyl methyl ether	ND		10.0		ug/L			11/04/15 19:53	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW2A(102915)

Date Collected: 10/29/15 13:55
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		100		ug/L			11/04/15 19:53	10
tert-Butylbenzene	ND		10.0		ug/L			11/04/15 19:53	10
1,1,1,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 19:53	10
1,1,2,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 19:53	10
Tetrachloroethene	ND		10.0		ug/L			11/04/15 19:53	10
Toluene	**368**		10.0		ug/L			11/04/15 19:53	10
trans-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 19:53	10
trans-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 19:53	10
1,2,3-Trichlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
1,2,4-Trichlorobenzene	ND		10.0		ug/L			11/04/15 19:53	10
1,1,1-Trichloroethane	ND		10.0		ug/L			11/04/15 19:53	10
1,1,2-Trichloroethane	ND		10.0		ug/L			11/04/15 19:53	10
Trichloroethene	ND		10.0		ug/L			11/04/15 19:53	10
Trichlorofluoromethane	ND		10.0		ug/L			11/04/15 19:53	10
1,2,3-Trichloropropane	ND		10.0		ug/L			11/04/15 19:53	10
1,2,4-Trimethylbenzene	**672**		10.0		ug/L			11/04/15 19:53	10
1,3,5-Trimethylbenzene	**137**		10.0		ug/L			11/04/15 19:53	10
Vinyl chloride	ND		10.0		ug/L			11/04/15 19:53	10
Xylenes, Total	**2500**		150		ug/L			11/05/15 14:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 19:53*	*10*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/05/15 14:46*	*50*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/04/15 19:53*	*10*
Dibromofluoromethane (Surr)	*99*		*70 - 130*		*11/05/15 14:46*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*11/04/15 19:53*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/05/15 14:46*	*50*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 19:53*	*10*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/05/15 14:46*	*50*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/09/15 21:04	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**18.6**		0.100		mg/L		11/03/15 13:30	11/04/15 17:47	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 13:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW3A(102915)

Date Collected: 10/29/15 10:50
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 15:24	1
Benzene	ND		1.00		ug/L			11/04/15 15:24	1
Bromobenzene	ND		1.00		ug/L			11/04/15 15:24	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 15:24	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 15:24	1
Bromoform	ND		1.00		ug/L			11/04/15 15:24	1
Bromomethane	ND		1.00		ug/L			11/04/15 15:24	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 15:24	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 15:24	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 15:24	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 15:24	1
Chloroethane	ND		1.00		ug/L			11/04/15 15:24	1
Chloroform	ND		1.00		ug/L			11/04/15 15:24	1
Chloromethane	ND		1.00		ug/L			11/04/15 15:24	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 15:24	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 15:24	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 15:24	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 15:24	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 15:24	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 15:24	1
Dibromomethane	ND		1.00		ug/L			11/04/15 15:24	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 15:24	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 15:24	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 15:24	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 15:24	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 15:24	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 15:24	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 15:24	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 15:24	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 15:24	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 15:24	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 15:24	1
2-Hexanone	ND		10.0		ug/L			11/04/15 15:24	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 15:24	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 15:24	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 15:24	1
Naphthalene	ND		5.00		ug/L			11/04/15 15:24	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 15:24	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
Styrene	ND		1.00		ug/L			11/04/15 15:24	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 15:24	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW3A(102915)

Date Collected: 10/29/15 10:50
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 15:24	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 15:24	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 15:24	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 15:24	1
Toluene	ND		1.00		ug/L			11/04/15 15:24	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 15:24	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 15:24	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 15:24	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 15:24	1
Trichloroethene	ND		1.00		ug/L			11/04/15 15:24	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 15:24	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 15:24	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 15:24	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 15:24	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 15:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/04/15 15:24*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/04/15 15:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*11/04/15 15:24*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 15:24*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**61.5**		1.00		mg/L			11/09/15 21:22	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**8.42**		0.100		mg/L		11/04/15 12:00	11/05/15 00:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.896**		0.100		mg/L			11/12/15 11:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW5A(102915)

Date Collected: 10/29/15 14:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250		ug/L			11/04/15 20:20	10
Benzene	**18.8**		10.0		ug/L			11/04/15 20:20	10
Bromobenzene	ND		10.0		ug/L			11/04/15 20:20	10
Bromochloromethane	ND		10.0		ug/L			11/04/15 20:20	10
Bromodichloromethane	ND		10.0		ug/L			11/04/15 20:20	10
Bromoform	ND		10.0		ug/L			11/04/15 20:20	10
Bromomethane	ND		10.0		ug/L			11/04/15 20:20	10
2-Butanone (MEK)	ND		500		ug/L			11/04/15 20:20	10
Carbon disulfide	ND		10.0		ug/L			11/04/15 20:20	10
Carbon tetrachloride	ND		10.0		ug/L			11/04/15 20:20	10
Chlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
Chlorodibromomethane	ND		10.0		ug/L			11/04/15 20:20	10
Chloroethane	ND		10.0		ug/L			11/04/15 20:20	10
Chloroform	ND		10.0		ug/L			11/04/15 20:20	10
Chloromethane	ND		10.0		ug/L			11/04/15 20:20	10
2-Chlorotoluene	ND		10.0		ug/L			11/04/15 20:20	10
4-Chlorotoluene	ND		10.0		ug/L			11/04/15 20:20	10
cis-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 20:20	10
cis-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 20:20	10
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/04/15 20:20	10
1,2-Dibromoethane (EDB)	ND		10.0		ug/L			11/04/15 20:20	10
Dibromomethane	ND		10.0		ug/L			11/04/15 20:20	10
1,2-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
1,3-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
1,4-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
Dichlorodifluoromethane	ND	*	10.0		ug/L			11/04/15 20:20	10
1,1-Dichloroethane	ND		10.0		ug/L			11/04/15 20:20	10
1,2-Dichloroethane	ND		10.0		ug/L			11/04/15 20:20	10
1,1-Dichloroethene	ND		10.0		ug/L			11/04/15 20:20	10
1,2-Dichloropropane	ND		10.0		ug/L			11/04/15 20:20	10
1,3-Dichloropropane	ND		10.0		ug/L			11/04/15 20:20	10
2,2-Dichloropropane	ND		10.0		ug/L			11/04/15 20:20	10
1,1-Dichloropropene	ND		10.0		ug/L			11/04/15 20:20	10
Diisopropyl ether	ND		20.0		ug/L			11/04/15 20:20	10
Ethylbenzene	**854**		10.0		ug/L			11/04/15 20:20	10
Ethyl tert-butyl ether	ND		10.0		ug/L			11/04/15 20:20	10
Hexachlorobutadiene	ND		20.0		ug/L			11/04/15 20:20	10
2-Hexanone	ND		100		ug/L			11/04/15 20:20	10
Isopropylbenzene	**98.4**		10.0		ug/L			11/04/15 20:20	10
Methylene Chloride	ND		50.0		ug/L			11/04/15 20:20	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			11/04/15 20:20	10
Methyl tert-butyl ether	ND		10.0		ug/L			11/04/15 20:20	10
Naphthalene	**250**		50.0		ug/L			11/04/15 20:20	10
n-Butylbenzene	**85.2**		10.0		ug/L			11/04/15 20:20	10
N-Propylbenzene	**287**		10.0		ug/L			11/04/15 20:20	10
p-Isopropyltoluene	**16.3**		10.0		ug/L			11/04/15 20:20	10
sec-Butylbenzene	**30.8**		10.0		ug/L			11/04/15 20:20	10
Styrene	ND		10.0		ug/L			11/04/15 20:20	10
Tert-amyl methyl ether	ND		10.0		ug/L			11/04/15 20:20	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW5A(102915)

Date Collected: 10/29/15 14:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		100		ug/L			11/04/15 20:20	10
tert-Butylbenzene	ND		10.0		ug/L			11/04/15 20:20	10
1,1,1,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 20:20	10
1,1,2,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 20:20	10
Tetrachloroethene	ND		10.0		ug/L			11/04/15 20:20	10
Toluene	**134**		10.0		ug/L			11/04/15 20:20	10
trans-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 20:20	10
trans-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 20:20	10
1,2,3-Trichlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
1,2,4-Trichlorobenzene	ND		10.0		ug/L			11/04/15 20:20	10
1,1,1-Trichloroethane	ND		10.0		ug/L			11/04/15 20:20	10
1,1,2-Trichloroethane	ND		10.0		ug/L			11/04/15 20:20	10
Trichloroethene	ND		10.0		ug/L			11/04/15 20:20	10
Trichlorofluoromethane	ND		10.0		ug/L			11/04/15 20:20	10
1,2,3-Trichloropropane	ND		10.0		ug/L			11/04/15 20:20	10
1,2,4-Trimethylbenzene	**2000**		10.0		ug/L			11/04/15 20:20	10
1,3,5-Trimethylbenzene	**532**		10.0		ug/L			11/04/15 20:20	10
Vinyl chloride	ND		10.0		ug/L			11/04/15 20:20	10
Xylenes, Total	**2340**		30.0		ug/L			11/04/15 20:20	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 20:20*	*10*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/04/15 20:20*	*10*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*11/04/15 20:20*	*10*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/04/15 20:20*	*10*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/09/15 21:40	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.1**		0.100		mg/L		11/04/15 12:00	11/05/15 01:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 13:22	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW8A(102915)

Date Collected: 10/29/15 13:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 15:51	1
Benzene	ND		1.00		ug/L			11/04/15 15:51	1
Bromobenzene	ND		1.00		ug/L			11/04/15 15:51	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 15:51	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 15:51	1
Bromoform	ND		1.00		ug/L			11/04/15 15:51	1
Bromomethane	ND		1.00		ug/L			11/04/15 15:51	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 15:51	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 15:51	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 15:51	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 15:51	1
Chloroethane	ND		1.00		ug/L			11/04/15 15:51	1
Chloroform	ND		1.00		ug/L			11/04/15 15:51	1
Chloromethane	ND		1.00		ug/L			11/04/15 15:51	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 15:51	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 15:51	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 15:51	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 15:51	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 15:51	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 15:51	1
Dibromomethane	ND		1.00		ug/L			11/04/15 15:51	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 15:51	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 15:51	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 15:51	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 15:51	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 15:51	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 15:51	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 15:51	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 15:51	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 15:51	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 15:51	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 15:51	1
2-Hexanone	ND		10.0		ug/L			11/04/15 15:51	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 15:51	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 15:51	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 15:51	1
Naphthalene	ND		5.00		ug/L			11/04/15 15:51	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 15:51	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
Styrene	ND		1.00		ug/L			11/04/15 15:51	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 15:51	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW8A(102915)

Date Collected: 10/29/15 13:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 15:51	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 15:51	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 15:51	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 15:51	1
Toluene	ND		1.00		ug/L			11/04/15 15:51	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 15:51	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 15:51	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 15:51	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 15:51	1
Trichloroethene	ND		1.00		ug/L			11/04/15 15:51	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 15:51	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 15:51	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 15:51	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 15:51	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 15:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 15:51*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/04/15 15:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/04/15 15:51*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 15:51*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**47.5**		1.00		mg/L			11/09/15 21:58	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.79**		0.100		mg/L		11/04/15 12:00	11/05/15 01:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**1.02**		0.100		mg/L			11/12/15 11:02	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW10A(102915)

Date Collected: 10/29/15 13:45
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 16:18	1
Benzene	ND		1.00		ug/L			11/04/15 16:18	1
Bromobenzene	ND		1.00		ug/L			11/04/15 16:18	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 16:18	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 16:18	1
Bromoform	ND		1.00		ug/L			11/04/15 16:18	1
Bromomethane	ND		1.00		ug/L			11/04/15 16:18	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 16:18	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 16:18	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 16:18	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 16:18	1
Chloroethane	ND		1.00		ug/L			11/04/15 16:18	1
Chloroform	ND		1.00		ug/L			11/04/15 16:18	1
Chloromethane	ND		1.00		ug/L			11/04/15 16:18	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 16:18	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 16:18	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 16:18	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 16:18	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 16:18	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 16:18	1
Dibromomethane	ND		1.00		ug/L			11/04/15 16:18	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 16:18	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 16:18	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 16:18	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 16:18	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 16:18	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 16:18	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 16:18	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 16:18	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 16:18	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 16:18	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 16:18	1
2-Hexanone	ND		10.0		ug/L			11/04/15 16:18	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 16:18	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 16:18	1
Methyl tert-butyl ether	**10.2**		1.00		ug/L			11/04/15 16:18	1
Naphthalene	ND		5.00		ug/L			11/04/15 16:18	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 16:18	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
Styrene	ND		1.00		ug/L			11/04/15 16:18	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 16:18	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW10A(102915)

Date Collected: 10/29/15 13:45
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 16:18	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 16:18	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 16:18	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 16:18	1
Toluene	ND		1.00		ug/L			11/04/15 16:18	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 16:18	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 16:18	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 16:18	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 16:18	1
Trichloroethene	ND		1.00		ug/L			11/04/15 16:18	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 16:18	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 16:18	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 16:18	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 16:18	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 16:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/04/15 16:18*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/04/15 16:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/04/15 16:18*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 16:18*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**11.8**		5.00		mg/L			11/09/15 22:16	5

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.58**		0.100		mg/L		11/04/15 12:00	11/05/15 01:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.112**		0.100		mg/L			11/12/15 11:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW11A(102915)

Lab Sample ID: 490-90930-7

Date Collected: 10/29/15 15:25
Matrix: Water
Date Received: 10/30/15 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 16:45	1
Benzene	**4.37**		1.00		ug/L			11/04/15 16:45	1
Bromobenzene	ND		1.00		ug/L			11/04/15 16:45	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 16:45	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 16:45	1
Bromoform	ND		1.00		ug/L			11/04/15 16:45	1
Bromomethane	ND		1.00		ug/L			11/04/15 16:45	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 16:45	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 16:45	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 16:45	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 16:45	1
Chloroethane	ND		1.00		ug/L			11/04/15 16:45	1
Chloroform	ND		1.00		ug/L			11/04/15 16:45	1
Chloromethane	ND		1.00		ug/L			11/04/15 16:45	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 16:45	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 16:45	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 16:45	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 16:45	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 16:45	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 16:45	1
Dibromomethane	ND		1.00		ug/L			11/04/15 16:45	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 16:45	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 16:45	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 16:45	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 16:45	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 16:45	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 16:45	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 16:45	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 16:45	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 16:45	1
Ethylbenzene	**114**		1.00		ug/L			11/04/15 16:45	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 16:45	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 16:45	1
2-Hexanone	ND		10.0		ug/L			11/04/15 16:45	1
Isopropylbenzene	**10.7**		1.00		ug/L			11/04/15 16:45	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 16:45	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 16:45	1
Methyl tert-butyl ether	**20.3**		1.00		ug/L			11/04/15 16:45	1
Naphthalene	**44.5**		5.00		ug/L			11/04/15 16:45	1
n-Butylbenzene	**2.45**		1.00		ug/L			11/04/15 16:45	1
N-Propylbenzene	**24.5**		1.00		ug/L			11/04/15 16:45	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 16:45	1
sec-Butylbenzene	**1.43**		1.00		ug/L			11/04/15 16:45	1
Styrene	ND		1.00		ug/L			11/04/15 16:45	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 16:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW11A(102915)

Date Collected: 10/29/15 15:25
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 16:45	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 16:45	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 16:45	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 16:45	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 16:45	1
Toluene	**2.77**		1.00		ug/L			11/04/15 16:45	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 16:45	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 16:45	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 16:45	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 16:45	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 16:45	1
Trichloroethene	ND		1.00		ug/L			11/04/15 16:45	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 16:45	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 16:45	1
1,2,4-Trimethylbenzene	**100**		1.00		ug/L			11/04/15 16:45	1
1,3,5-Trimethylbenzene	**2.70**		1.00		ug/L			11/04/15 16:45	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 16:45	1
Xylenes, Total	**72.2**		3.00		ug/L			11/04/15 16:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/04/15 16:45*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/04/15 16:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/04/15 16:45*	*1*
Toluene-d8 (Surr)	*97*		*70 - 130*		*11/04/15 16:45*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**5.96**		1.00		mg/L			11/09/15 22:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.52**		0.100		mg/L		11/02/15 20:05	11/04/15 18:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.205**		0.100		mg/L			11/12/15 11:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW12A(102915)

Date Collected: 10/29/15 15:15
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 17:12	1
Benzene	ND		1.00		ug/L			11/04/15 17:12	1
Bromobenzene	ND		1.00		ug/L			11/04/15 17:12	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 17:12	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 17:12	1
Bromoform	ND		1.00		ug/L			11/04/15 17:12	1
Bromomethane	ND		1.00		ug/L			11/04/15 17:12	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 17:12	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 17:12	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 17:12	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 17:12	1
Chloroethane	ND		1.00		ug/L			11/04/15 17:12	1
Chloroform	ND		1.00		ug/L			11/04/15 17:12	1
Chloromethane	ND		1.00		ug/L			11/04/15 17:12	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 17:12	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 17:12	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 17:12	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 17:12	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 17:12	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 17:12	1
Dibromomethane	ND		1.00		ug/L			11/04/15 17:12	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 17:12	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 17:12	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 17:12	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 17:12	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 17:12	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 17:12	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 17:12	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 17:12	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 17:12	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 17:12	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 17:12	1
2-Hexanone	ND		10.0		ug/L			11/04/15 17:12	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 17:12	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 17:12	1
Methyl tert-butyl ether	**1.77**		1.00		ug/L			11/04/15 17:12	1
Naphthalene	ND		5.00		ug/L			11/04/15 17:12	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 17:12	1
sec-Butylbenzene	**1.14**		1.00		ug/L			11/04/15 17:12	1
Styrene	ND		1.00		ug/L			11/04/15 17:12	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 17:12	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW12A(102915)

Date Collected: 10/29/15 15:15
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 17:12	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 17:12	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 17:12	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 17:12	1
Toluene	ND		1.00		ug/L			11/04/15 17:12	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 17:12	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 17:12	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 17:12	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 17:12	1
Trichloroethene	ND		1.00		ug/L			11/04/15 17:12	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 17:12	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 17:12	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 17:12	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 17:12	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 17:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*11/04/15 17:12*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*11/04/15 17:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*11/04/15 17:12*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/04/15 17:12*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.7**		1.00		mg/L			11/09/15 22:52	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**32.4**		0.100		mg/L		11/02/15 20:05	11/04/15 18:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**4.59**		0.100		mg/L			11/12/15 11:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW13A(102915)

Date Collected: 10/29/15 12:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 17:39	1
Benzene	ND		1.00		ug/L			11/04/15 17:39	1
Bromobenzene	ND		1.00		ug/L			11/04/15 17:39	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 17:39	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 17:39	1
Bromoform	ND		1.00		ug/L			11/04/15 17:39	1
Bromomethane	ND		1.00		ug/L			11/04/15 17:39	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 17:39	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 17:39	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 17:39	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 17:39	1
Chloroethane	ND		1.00		ug/L			11/04/15 17:39	1
Chloroform	ND		1.00		ug/L			11/04/15 17:39	1
Chloromethane	ND		1.00		ug/L			11/04/15 17:39	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 17:39	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 17:39	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 17:39	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 17:39	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 17:39	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 17:39	1
Dibromomethane	ND		1.00		ug/L			11/04/15 17:39	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 17:39	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 17:39	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 17:39	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 17:39	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 17:39	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 17:39	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 17:39	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 17:39	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 17:39	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 17:39	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 17:39	1
2-Hexanone	ND		10.0		ug/L			11/04/15 17:39	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 17:39	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 17:39	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 17:39	1
Naphthalene	ND		5.00		ug/L			11/04/15 17:39	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 17:39	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
Styrene	ND		1.00		ug/L			11/04/15 17:39	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 17:39	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW13A(102915)

Lab Sample ID: 490-90930-9

Date Collected: 10/29/15 12:10
Matrix: Water
Date Received: 10/30/15 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 17:39	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 17:39	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 17:39	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 17:39	1
Toluene	ND		1.00		ug/L			11/04/15 17:39	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 17:39	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 17:39	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 17:39	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 17:39	1
Trichloroethene	ND		1.00		ug/L			11/04/15 17:39	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 17:39	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 17:39	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 17:39	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 17:39	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*11/04/15 17:39*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/04/15 17:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*11/04/15 17:39*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 17:39*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**18.1**		2.00		mg/L			11/09/15 23:10	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.63**		0.100		mg/L		11/04/15 12:00	11/05/15 01:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.413**		0.100		mg/L			11/12/15 11:05	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW14A(102915)

Date Collected: 10/29/15 11:30
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 18:06	1
Benzene	ND		1.00		ug/L			11/04/15 18:06	1
Bromobenzene	ND		1.00		ug/L			11/04/15 18:06	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 18:06	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 18:06	1
Bromoform	ND		1.00		ug/L			11/04/15 18:06	1
Bromomethane	ND		1.00		ug/L			11/04/15 18:06	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 18:06	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 18:06	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 18:06	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 18:06	1
Chloroethane	ND		1.00		ug/L			11/04/15 18:06	1
Chloroform	ND		1.00		ug/L			11/04/15 18:06	1
Chloromethane	ND		1.00		ug/L			11/04/15 18:06	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 18:06	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 18:06	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 18:06	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 18:06	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 18:06	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 18:06	1
Dibromomethane	ND		1.00		ug/L			11/04/15 18:06	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 18:06	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 18:06	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 18:06	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 18:06	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 18:06	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 18:06	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 18:06	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 18:06	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 18:06	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 18:06	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 18:06	1
2-Hexanone	ND		10.0		ug/L			11/04/15 18:06	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 18:06	1
Methyl tert-butyl ether	**1.43**		1.00		ug/L			11/04/15 18:06	1
Naphthalene	ND		5.00		ug/L			11/04/15 18:06	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 18:06	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
Styrene	ND		1.00		ug/L			11/04/15 18:06	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 18:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW14A(102915)

Lab Sample ID: 490-90930-10

Date Collected: 10/29/15 11:30
Matrix: Water
Date Received: 10/30/15 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 18:06	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 18:06	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 18:06	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 18:06	1
Toluene	ND		1.00		ug/L			11/04/15 18:06	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 18:06	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 18:06	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 18:06	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 18:06	1
Trichloroethene	ND		1.00		ug/L			11/04/15 18:06	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 18:06	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 18:06	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 18:06	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 18:06	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/04/15 18:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/04/15 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/04/15 18:06*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 18:06*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**15.7**		2.00		mg/L			11/09/15 23:29	2

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**20.7**		0.100		mg/L		11/04/15 12:00	11/05/15 01:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**2.13**		0.100		mg/L			11/12/15 11:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW15A(102915)

Date Collected: 10/29/15 10:30
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 18:33	1
Benzene	**1.96**		1.00		ug/L			11/04/15 18:33	1
Bromobenzene	ND		1.00		ug/L			11/04/15 18:33	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 18:33	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 18:33	1
Bromoform	ND		1.00		ug/L			11/04/15 18:33	1
Bromomethane	ND		1.00		ug/L			11/04/15 18:33	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 18:33	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 18:33	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 18:33	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 18:33	1
Chloroethane	ND		1.00		ug/L			11/04/15 18:33	1
Chloroform	ND		1.00		ug/L			11/04/15 18:33	1
Chloromethane	ND		1.00		ug/L			11/04/15 18:33	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 18:33	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 18:33	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 18:33	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 18:33	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 18:33	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 18:33	1
Dibromomethane	ND		1.00		ug/L			11/04/15 18:33	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 18:33	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 18:33	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 18:33	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 18:33	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 18:33	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 18:33	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 18:33	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 18:33	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 18:33	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 18:33	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 18:33	1
2-Hexanone	ND		10.0		ug/L			11/04/15 18:33	1
Isopropylbenzene	**3.30**		1.00		ug/L			11/04/15 18:33	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 18:33	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 18:33	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 18:33	1
Naphthalene	ND		5.00		ug/L			11/04/15 18:33	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 18:33	1
sec-Butylbenzene	**1.54**		1.00		ug/L			11/04/15 18:33	1
Styrene	ND		1.00		ug/L			11/04/15 18:33	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 18:33	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW15A(102915)

Date Collected: 10/29/15 10:30
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 18:33	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 18:33	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 18:33	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 18:33	1
Toluene	ND		1.00		ug/L			11/04/15 18:33	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 18:33	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 18:33	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 18:33	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 18:33	1
Trichloroethene	ND		1.00		ug/L			11/04/15 18:33	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 18:33	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 18:33	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 18:33	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 18:33	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 18:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*70 - 130*		*11/04/15 18:33*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/04/15 18:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*11/04/15 18:33*	*1*
Toluene-d8 (Surr)	*99*		*70 - 130*		*11/04/15 18:33*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**26.7**		1.00		mg/L			11/10/15 00:23	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**7.89**		0.100		mg/L		11/04/15 12:00	11/05/15 01:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.468**	**F1**	0.100		mg/L			11/10/15 14:04	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW16A(102915)

Date Collected: 10/29/15 15:00
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 19:00	1
Benzene	ND		1.00		ug/L			11/04/15 19:00	1
Bromobenzene	ND		1.00		ug/L			11/04/15 19:00	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 19:00	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 19:00	1
Bromoform	ND		1.00		ug/L			11/04/15 19:00	1
Bromomethane	ND		1.00		ug/L			11/04/15 19:00	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 19:00	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 19:00	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 19:00	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 19:00	1
Chloroethane	ND		1.00		ug/L			11/04/15 19:00	1
Chloroform	ND		1.00		ug/L			11/04/15 19:00	1
Chloromethane	ND		1.00		ug/L			11/04/15 19:00	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 19:00	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 19:00	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 19:00	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 19:00	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 19:00	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 19:00	1
Dibromomethane	ND		1.00		ug/L			11/04/15 19:00	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 19:00	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 19:00	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 19:00	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 19:00	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 19:00	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 19:00	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 19:00	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 19:00	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 19:00	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 19:00	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 19:00	1
2-Hexanone	ND		10.0		ug/L			11/04/15 19:00	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 19:00	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 19:00	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 19:00	1
Naphthalene	ND		5.00		ug/L			11/04/15 19:00	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 19:00	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
Styrene	ND		1.00		ug/L			11/04/15 19:00	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 19:00	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW16A(102915)

Date Collected: 10/29/15 15:00
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 19:00	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 19:00	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 19:00	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 19:00	1
Toluene	ND		1.00		ug/L			11/04/15 19:00	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 19:00	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 19:00	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 19:00	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 19:00	1
Trichloroethene	ND		1.00		ug/L			11/04/15 19:00	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 19:00	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 19:00	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 19:00	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 19:00	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 19:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 19:00*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/04/15 19:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 130*		*11/04/15 19:00*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 19:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**27.8**		1.00		mg/L			11/10/15 00:41	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.4**		0.100		mg/L		11/04/15 12:00	11/05/15 01:36	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**3.16**		0.100		mg/L			11/10/15 14:06	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: DUP01(102915)

Lab Sample ID: 490-90930-13

Date Collected: 10/29/15 12:00
Matrix: Water
Date Received: 10/30/15 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		250		ug/L			11/04/15 20:47	10
Benzene	**18.1**		10.0		ug/L			11/04/15 20:47	10
Bromobenzene	ND		10.0		ug/L			11/04/15 20:47	10
Bromochloromethane	ND		10.0		ug/L			11/04/15 20:47	10
Bromodichloromethane	ND		10.0		ug/L			11/04/15 20:47	10
Bromoform	ND		10.0		ug/L			11/04/15 20:47	10
Bromomethane	ND		10.0		ug/L			11/04/15 20:47	10
2-Butanone (MEK)	ND		500		ug/L			11/04/15 20:47	10
Carbon disulfide	ND		10.0		ug/L			11/04/15 20:47	10
Carbon tetrachloride	ND		10.0		ug/L			11/04/15 20:47	10
Chlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
Chlorodibromomethane	ND		10.0		ug/L			11/04/15 20:47	10
Chloroethane	ND		10.0		ug/L			11/04/15 20:47	10
Chloroform	ND		10.0		ug/L			11/04/15 20:47	10
Chloromethane	ND		10.0		ug/L			11/04/15 20:47	10
2-Chlorotoluene	ND		10.0		ug/L			11/04/15 20:47	10
4-Chlorotoluene	ND		10.0		ug/L			11/04/15 20:47	10
cis-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 20:47	10
cis-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 20:47	10
1,2-Dibromo-3-Chloropropane	ND		100		ug/L			11/04/15 20:47	10
1,2-Dibromoethane (EDB)	ND		10.0		ug/L			11/04/15 20:47	10
Dibromomethane	ND		10.0		ug/L			11/04/15 20:47	10
1,2-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
1,3-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
1,4-Dichlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
Dichlorodifluoromethane	ND	*	10.0		ug/L			11/04/15 20:47	10
1,1-Dichloroethane	ND		10.0		ug/L			11/04/15 20:47	10
1,2-Dichloroethane	ND		10.0		ug/L			11/04/15 20:47	10
1,1-Dichloroethene	ND		10.0		ug/L			11/04/15 20:47	10
1,2-Dichloropropane	ND		10.0		ug/L			11/04/15 20:47	10
1,3-Dichloropropane	ND		10.0		ug/L			11/04/15 20:47	10
2,2-Dichloropropane	ND		10.0		ug/L			11/04/15 20:47	10
1,1-Dichloropropene	ND		10.0		ug/L			11/04/15 20:47	10
Diisopropyl ether	ND		20.0		ug/L			11/04/15 20:47	10
Ethylbenzene	**590**		10.0		ug/L			11/04/15 20:47	10
Ethyl tert-butyl ether	ND		10.0		ug/L			11/04/15 20:47	10
Hexachlorobutadiene	ND		20.0		ug/L			11/04/15 20:47	10
2-Hexanone	ND		100		ug/L			11/04/15 20:47	10
Isopropylbenzene	**51.5**		10.0		ug/L			11/04/15 20:47	10
Methylene Chloride	ND		50.0		ug/L			11/04/15 20:47	10
4-Methyl-2-pentanone (MIBK)	ND		100		ug/L			11/04/15 20:47	10
Methyl tert-butyl ether	ND		10.0		ug/L			11/04/15 20:47	10
Naphthalene	**174**		50.0		ug/L			11/04/15 20:47	10
n-Butylbenzene	**49.1**		10.0		ug/L			11/04/15 20:47	10
N-Propylbenzene	**122**		10.0		ug/L			11/04/15 20:47	10
p-Isopropyltoluene	ND		10.0		ug/L			11/04/15 20:47	10
sec-Butylbenzene	**15.6**		10.0		ug/L			11/04/15 20:47	10
Styrene	ND		10.0		ug/L			11/04/15 20:47	10
Tert-amyl methyl ether	ND		10.0		ug/L			11/04/15 20:47	10

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: DUP01(102915)

Date Collected: 10/29/15 12:00
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		100		ug/L			11/04/15 20:47	10
tert-Butylbenzene	ND		10.0		ug/L			11/04/15 20:47	10
1,1,1,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 20:47	10
1,1,2,2-Tetrachloroethane	ND		10.0		ug/L			11/04/15 20:47	10
Tetrachloroethene	ND		10.0		ug/L			11/04/15 20:47	10
Toluene	**617**		10.0		ug/L			11/04/15 20:47	10
trans-1,2-Dichloroethene	ND		10.0		ug/L			11/04/15 20:47	10
trans-1,3-Dichloropropene	ND		10.0		ug/L			11/04/15 20:47	10
1,2,3-Trichlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
1,2,4-Trichlorobenzene	ND		10.0		ug/L			11/04/15 20:47	10
1,1,1-Trichloroethane	ND		10.0		ug/L			11/04/15 20:47	10
1,1,2-Trichloroethane	ND		10.0		ug/L			11/04/15 20:47	10
Trichloroethene	ND		10.0		ug/L			11/04/15 20:47	10
Trichlorofluoromethane	ND		10.0		ug/L			11/04/15 20:47	10
1,2,3-Trichloropropane	ND		10.0		ug/L			11/04/15 20:47	10
1,2,4-Trimethylbenzene	**1370**		10.0		ug/L			11/04/15 20:47	10
1,3,5-Trimethylbenzene	**410**		10.0		ug/L			11/04/15 20:47	10
Vinyl chloride	ND		10.0		ug/L			11/04/15 20:47	10
Xylenes, Total	**2440**		150		ug/L			11/05/15 15:13	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/04/15 20:47*	*10*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*11/05/15 15:13*	*50*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/04/15 20:47*	*10*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/05/15 15:13*	*50*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*11/04/15 20:47*	*10*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/05/15 15:13*	*50*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/04/15 20:47*	*10*
Toluene-d8 (Surr)	*101*		*70 - 130*		*11/05/15 15:13*	*50*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/10/15 00:59	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**9.21**		0.100		mg/L		11/04/15 12:00	11/05/15 01:41	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 14:07	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: RB01(102915)

Date Collected: 10/29/15 15:40
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 12:42	1
Benzene	ND		1.00		ug/L			11/04/15 12:42	1
Bromobenzene	ND		1.00		ug/L			11/04/15 12:42	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 12:42	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 12:42	1
Bromoform	ND		1.00		ug/L			11/04/15 12:42	1
Bromomethane	ND		1.00		ug/L			11/04/15 12:42	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 12:42	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 12:42	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 12:42	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 12:42	1
Chloroethane	ND		1.00		ug/L			11/04/15 12:42	1
Chloroform	ND		1.00		ug/L			11/04/15 12:42	1
Chloromethane	ND		1.00		ug/L			11/04/15 12:42	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 12:42	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 12:42	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 12:42	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 12:42	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 12:42	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 12:42	1
Dibromomethane	ND		1.00		ug/L			11/04/15 12:42	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 12:42	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 12:42	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 12:42	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 12:42	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 12:42	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 12:42	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 12:42	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 12:42	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 12:42	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 12:42	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 12:42	1
2-Hexanone	ND		10.0		ug/L			11/04/15 12:42	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 12:42	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 12:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 12:42	1
Naphthalene	ND		5.00		ug/L			11/04/15 12:42	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 12:42	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
Styrene	ND		1.00		ug/L			11/04/15 12:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 12:42	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: RB01(102915)

Lab Sample ID: 490-90930-14

Date Collected: 10/29/15 15:40
Matrix: Water
Date Received: 10/30/15 09:45

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 12:42	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 12:42	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 12:42	1
Toluene	ND		1.00		ug/L			11/04/15 12:42	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 12:42	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 12:42	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 12:42	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 12:42	1
Trichloroethene	ND		1.00		ug/L			11/04/15 12:42	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 12:42	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 12:42	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 12:42	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 12:42	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 12:42*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/04/15 12:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 130*		*11/04/15 12:42*	*1*
Toluene-d8 (Surr)	*103*		*70 - 130*		*11/04/15 12:42*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/10/15 01:17	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		11/02/15 20:05	11/04/15 18:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 14:08	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: TB(102915)

Date Collected: 10/29/15 00:01
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 13:09	1
Benzene	ND		1.00		ug/L			11/04/15 13:09	1
Bromobenzene	ND		1.00		ug/L			11/04/15 13:09	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 13:09	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 13:09	1
Bromoform	ND		1.00		ug/L			11/04/15 13:09	1
Bromomethane	ND		1.00		ug/L			11/04/15 13:09	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 13:09	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 13:09	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 13:09	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 13:09	1
Chloroethane	ND		1.00		ug/L			11/04/15 13:09	1
Chloroform	ND		1.00		ug/L			11/04/15 13:09	1
Chloromethane	ND		1.00		ug/L			11/04/15 13:09	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 13:09	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 13:09	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 13:09	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 13:09	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 13:09	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 13:09	1
Dibromomethane	ND		1.00		ug/L			11/04/15 13:09	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
Dichlorodifluoromethane	ND	*	1.00		ug/L			11/04/15 13:09	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 13:09	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 13:09	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 13:09	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 13:09	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 13:09	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 13:09	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 13:09	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 13:09	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 13:09	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 13:09	1
2-Hexanone	ND		10.0		ug/L			11/04/15 13:09	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 13:09	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 13:09	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 13:09	1
Naphthalene	ND		5.00		ug/L			11/04/15 13:09	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 13:09	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
Styrene	ND		1.00		ug/L			11/04/15 13:09	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 13:09	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: TB(102915)

Date Collected: 10/29/15 00:01
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 13:09	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 13:09	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 13:09	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 13:09	1
Toluene	ND		1.00		ug/L			11/04/15 13:09	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 13:09	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 13:09	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 13:09	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 13:09	1
Trichloroethene	ND		1.00		ug/L			11/04/15 13:09	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 13:09	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 13:09	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 13:09	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 13:09	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 13:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*		*11/04/15 13:09*	*1*
Dibromofluoromethane (Surr)	*100*		*70 - 130*		*11/04/15 13:09*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/04/15 13:09*	*1*
Toluene-d8 (Surr)	*102*		*70 - 130*		*11/04/15 13:09*	*1*

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

Lab Sample ID: MB 490-295526/6
Matrix: Water
Analysis Batch: 295526

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/04/15 12:05	1
Benzene	ND		1.00		ug/L			11/04/15 12:05	1
Bromobenzene	ND		1.00		ug/L			11/04/15 12:05	1
Bromochloromethane	ND		1.00		ug/L			11/04/15 12:05	1
Bromodichloromethane	ND		1.00		ug/L			11/04/15 12:05	1
Bromoform	ND		1.00		ug/L			11/04/15 12:05	1
Bromomethane	ND		1.00		ug/L			11/04/15 12:05	1
2-Butanone (MEK)	ND		50.0		ug/L			11/04/15 12:05	1
Carbon disulfide	ND		1.00		ug/L			11/04/15 12:05	1
Carbon tetrachloride	ND		1.00		ug/L			11/04/15 12:05	1
Chlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
Chlorodibromomethane	ND		1.00		ug/L			11/04/15 12:05	1
Chloroethane	ND		1.00		ug/L			11/04/15 12:05	1
Chloroform	ND		1.00		ug/L			11/04/15 12:05	1
Chloromethane	ND		1.00		ug/L			11/04/15 12:05	1
2-Chlorotoluene	ND		1.00		ug/L			11/04/15 12:05	1
4-Chlorotoluene	ND		1.00		ug/L			11/04/15 12:05	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 12:05	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 12:05	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/04/15 12:05	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/04/15 12:05	1
Dibromomethane	ND		1.00		ug/L			11/04/15 12:05	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/04/15 12:05	1
1,1-Dichloroethane	ND		1.00		ug/L			11/04/15 12:05	1
1,2-Dichloroethane	ND		1.00		ug/L			11/04/15 12:05	1
1,1-Dichloroethene	ND		1.00		ug/L			11/04/15 12:05	1
1,2-Dichloropropane	ND		1.00		ug/L			11/04/15 12:05	1
1,3-Dichloropropane	ND		1.00		ug/L			11/04/15 12:05	1
2,2-Dichloropropane	ND		1.00		ug/L			11/04/15 12:05	1
1,1-Dichloropropene	ND		1.00		ug/L			11/04/15 12:05	1
Diisopropyl ether	ND		2.00		ug/L			11/04/15 12:05	1
Ethylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/04/15 12:05	1
Hexachlorobutadiene	ND		2.00		ug/L			11/04/15 12:05	1
2-Hexanone	ND		10.0		ug/L			11/04/15 12:05	1
Isopropylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 12:05	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/04/15 12:05	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/04/15 12:05	1
Naphthalene	ND		5.00		ug/L			11/04/15 12:05	1
n-Butylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
N-Propylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
p-Isopropyltoluene	ND		1.00		ug/L			11/04/15 12:05	1
sec-Butylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
Styrene	ND		1.00		ug/L			11/04/15 12:05	1

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

Lab Sample ID: MB 490-295526/6
Matrix: Water
Analysis Batch: 295526

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tert-amyl methyl ether	ND		1.00		ug/L			11/04/15 12:05	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/04/15 12:05	1
tert-Butylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 12:05	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/04/15 12:05	1
Tetrachloroethene	ND		1.00		ug/L			11/04/15 12:05	1
Toluene	ND		1.00		ug/L			11/04/15 12:05	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/04/15 12:05	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/04/15 12:05	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/04/15 12:05	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/04/15 12:05	1
Trichloroethene	ND		1.00		ug/L			11/04/15 12:05	1
Trichlorofluoromethane	ND		1.00		ug/L			11/04/15 12:05	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/04/15 12:05	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/04/15 12:05	1
Vinyl chloride	ND		1.00		ug/L			11/04/15 12:05	1
Xylenes, Total	ND		3.00		ug/L			11/04/15 12:05	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*11/04/15 12:05*	*1*
Dibromofluoromethane (Surr)	*98*		*70 - 130*		*11/04/15 12:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 130*		*11/04/15 12:05*	*1*
Toluene-d8 (Surr)	*100*		*70 - 130*		*11/04/15 12:05*	*1*

Lab Sample ID: LCS 490-295526/3
Matrix: Water
Analysis Batch: 295526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	102.3		ug/L		102	54 - 145
Benzene	20.0	20.22		ug/L		101	80 - 121
Bromobenzene	20.0	20.13		ug/L		101	68 - 130
Bromochloromethane	20.0	17.81		ug/L		89	78 - 129
Bromodichloromethane	20.0	18.75		ug/L		94	75 - 129
Bromoform	20.0	19.60		ug/L		98	46 - 145
Bromomethane	20.0	24.48		ug/L		122	41 - 150
2-Butanone (MEK)	100	94.31		ug/L		94	62 - 133
Carbon disulfide	20.0	18.80		ug/L		94	77 - 126
Carbon tetrachloride	20.0	19.47		ug/L		97	64 - 147
Chlorobenzene	20.0	19.87		ug/L		99	80 - 120
Chlorodibromomethane	20.0	20.71		ug/L		104	69 - 133
Chloroethane	20.0	22.57		ug/L		113	72 - 120
Chloroform	20.0	20.00		ug/L		100	73 - 129
Chloromethane	20.0	29.91		ug/L		150	12 - 150
2-Chlorotoluene	20.0	20.68		ug/L		103	75 - 126

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

Lab Sample ID: LCS 490-295526/3
Matrix: Water
Analysis Batch: 295526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	20.0	21.02		ug/L		105	75 - 130
cis-1,2-Dichloroethene	20.0	19.85		ug/L		99	76 - 125
cis-1,3-Dichloropropene	20.0	18.91		ug/L		95	74 - 140
1,2-Dibromo-3-Chloropropane	20.0	18.25		ug/L		91	54 - 125
1,2-Dibromoethane (EDB)	20.0	20.36		ug/L		102	80 - 129
Dibromomethane	20.0	18.61		ug/L		93	71 - 125
1,2-Dichlorobenzene	20.0	20.65		ug/L		103	80 - 121
1,3-Dichlorobenzene	20.0	20.24		ug/L		101	80 - 122
1,4-Dichlorobenzene	20.0	19.62		ug/L		98	80 - 120
Dichlorodifluoromethane	20.0	26.98	*	ug/L		135	37 - 127
1,1-Dichloroethane	20.0	19.93		ug/L		100	78 - 125
1,2-Dichloroethane	20.0	20.25		ug/L		101	77 - 121
1,1-Dichloroethene	20.0	20.93		ug/L		105	79 - 124
1,2-Dichloropropane	20.0	21.69		ug/L		108	75 - 120
1,3-Dichloropropane	20.0	19.51		ug/L		98	80 - 125
2,2-Dichloropropane	20.0	20.06		ug/L		100	43 - 161
1,1-Dichloropropene	20.0	20.05		ug/L		100	80 - 122
Diisopropyl ether	20.0	19.63		ug/L		98	61 - 142
Ethylbenzene	20.0	20.84		ug/L		104	80 - 130
Ethyl tert-butyl ether	20.0	19.63		ug/L		98	63 - 135
Hexachlorobutadiene	20.0	21.82		ug/L		109	49 - 146
2-Hexanone	100	92.07		ug/L		92	60 - 142
Isopropylbenzene	20.0	20.70		ug/L		103	80 - 141
Methylene Chloride	20.0	19.19		ug/L		96	79 - 123
4-Methyl-2-pentanone (MIBK)	100	88.48		ug/L		88	60 - 137
Methyl tert-butyl ether	20.0	19.11		ug/L		96	72 - 133
Naphthalene	20.0	20.11		ug/L		101	62 - 138
n-Butylbenzene	20.0	19.72		ug/L		99	68 - 132
N-Propylbenzene	20.0	20.95		ug/L		105	75 - 129
p-Isopropyltoluene	20.0	20.96		ug/L		105	75 - 128
sec-Butylbenzene	20.0	21.17		ug/L		106	76 - 128
Styrene	20.0	20.69		ug/L		103	80 - 127
Tert-amyl methyl ether	20.0	19.48		ug/L		97	63 - 135
tert-Butyl alcohol (TBA)	200	200.3		ug/L		100	54 - 150
tert-Butylbenzene	20.0	20.64		ug/L		103	76 - 126
1,1,1,2-Tetrachloroethane	20.0	18.94		ug/L		95	74 - 135
1,1,2,2-Tetrachloroethane	20.0	19.39		ug/L		97	69 - 131
Tetrachloroethene	20.0	19.70		ug/L		98	80 - 126
Toluene	20.0	19.73		ug/L		99	80 - 126
trans-1,2-Dichloroethene	20.0	20.09		ug/L		100	79 - 126
trans-1,3-Dichloropropene	20.0	21.82		ug/L		109	63 - 134
1,2,3-Trichlorobenzene	20.0	21.20		ug/L		106	62 - 133
1,2,4-Trichlorobenzene	20.0	17.92		ug/L		90	63 - 133
1,1,1-Trichloroethane	20.0	20.40		ug/L		102	78 - 135
1,1,2-Trichloroethane	20.0	20.27		ug/L		101	80 - 124
Trichloroethene	20.0	18.40		ug/L		92	80 - 123
Trichlorofluoromethane	20.0	21.70		ug/L		108	65 - 124
1,2,3-Trichloropropane	20.0	18.69		ug/L		93	70 - 131

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

Lab Sample ID: LCS 490-295526/3
Matrix: Water
Analysis Batch: 295526

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	20.0	20.72		ug/L		104	77 - 126
1,3,5-Trimethylbenzene	20.0	21.12		ug/L		106	77 - 127
Vinyl chloride	20.0	23.45		ug/L		117	68 - 120
Xylenes, Total	40.0	40.82		ug/L		102	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 490-90849-A-2 MS
Matrix: Water
Analysis Batch: 295526

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		250	246.4		ug/L		99	45 - 141
Benzene	ND		50.0	51.07		ug/L		102	75 - 133
Bromobenzene	ND		50.0	50.09		ug/L		100	60 - 138
Bromochloromethane	ND		50.0	45.01		ug/L		90	67 - 139
Bromodichloromethane	ND		50.0	47.96		ug/L		96	70 - 140
Bromoform	ND		50.0	49.73		ug/L		99	42 - 147
Bromomethane	ND		50.0	65.06		ug/L		130	16 - 163
2-Butanone (MEK)	ND		250	239.4		ug/L		96	50 - 138
Carbon disulfide	ND		50.0	45.59		ug/L		91	48 - 152
Carbon tetrachloride	ND		50.0	50.69		ug/L		101	62 - 164
Chlorobenzene	ND		50.0	49.06		ug/L		98	80 - 129
Chlorodibromomethane	ND		50.0	51.51		ug/L		103	66 - 140
Chloroethane	ND		50.0	60.19		ug/L		120	58 - 137
Chloroform	ND		50.0	51.37		ug/L		103	66 - 138
Chloromethane	ND		50.0	67.40		ug/L		135	10 - 169
2-Chlorotoluene	ND		50.0	51.64		ug/L		103	67 - 138
4-Chlorotoluene	ND		50.0	53.04		ug/L		106	69 - 138
cis-1,2-Dichloroethene	ND		50.0	49.94		ug/L		100	68 - 138
cis-1,3-Dichloropropene	ND		50.0	46.05		ug/L		92	71 - 141
1,2-Dibromo-3-Chloropropane	ND		50.0	44.21		ug/L		88	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	49.41		ug/L		99	75 - 137
Dibromomethane	ND		50.0	46.45		ug/L		93	58 - 140
1,2-Dichlorobenzene	ND		50.0	50.18		ug/L		100	79 - 128
1,3-Dichlorobenzene	ND		50.0	50.63		ug/L		101	77 - 131
1,4-Dichlorobenzene	ND		50.0	47.35		ug/L		95	78 - 126
Dichlorodifluoromethane	ND	F1 *	50.0	67.89	F1	ug/L		136	40 - 127
1,1-Dichloroethane	ND		50.0	50.56		ug/L		101	71 - 139
1,2-Dichloroethane	ND		50.0	49.23		ug/L		98	64 - 136
1,1-Dichloroethene	ND		50.0	50.40		ug/L		101	70 - 142
1,2-Dichloropropane	ND		50.0	43.54		ug/L		87	67 - 131
1,3-Dichloropropane	ND		50.0	48.75		ug/L		98	72 - 134
2,2-Dichloropropane	ND		50.0	48.56		ug/L		97	37 - 175

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

Lab Sample ID: 490-90849-A-2 MS
Matrix: Water
Analysis Batch: 295526

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		50.0	52.67		ug/L		105	76 - 139
Diisopropyl ether	ND		50.0	48.87		ug/L		98	10 - 200
Ethylbenzene	ND		50.0	52.02		ug/L		104	79 - 139
Ethyl tert-butyl ether	ND		50.0	50.03		ug/L		100	60 - 138
Hexachlorobutadiene	ND		50.0	51.61		ug/L		103	45 - 155
2-Hexanone	ND		250	227.6		ug/L		91	50 - 150
Isopropylbenzene	ND		50.0	53.34		ug/L		107	80 - 153
Methylene Chloride	ND		50.0	48.66		ug/L		97	64 - 139
4-Methyl-2-pentanone (MIBK)	ND		250	221.4		ug/L		89	50 - 147
Methyl tert-butyl ether	ND		50.0	49.50		ug/L		99	66 - 141
Naphthalene	ND		50.0	48.24		ug/L		96	55 - 140
n-Butylbenzene	ND		50.0	49.83		ug/L		100	66 - 141
N-Propylbenzene	ND		50.0	53.11		ug/L		106	69 - 142
p-Isopropyltoluene	ND		50.0	53.64		ug/L		107	71 - 137
sec-Butylbenzene	ND		50.0	54.27		ug/L		109	73 - 138
Styrene	ND		50.0	51.95		ug/L		104	61 - 148
Tert-amyl methyl ether	ND		50.0	49.66		ug/L		99	61 - 138
tert-Butyl alcohol (TBA)	ND		500	527.2		ug/L		105	50 - 183
tert-Butylbenzene	ND		50.0	53.58		ug/L		107	70 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	46.67		ug/L		93	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	48.41		ug/L		97	56 - 143
Tetrachloroethene	ND		50.0	49.83		ug/L		100	72 - 145
Toluene	ND		50.0	48.58		ug/L		97	75 - 136
trans-1,2-Dichloroethene	ND		50.0	50.03		ug/L		100	66 - 143
trans-1,3-Dichloropropene	ND		50.0	54.66		ug/L		109	59 - 135
1,2,3-Trichlorobenzene	ND		50.0	49.53		ug/L		99	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	43.30		ug/L		87	60 - 136
1,1,1-Trichloroethane	ND		50.0	52.98		ug/L		106	76 - 149
1,1,2-Trichloroethane	ND		50.0	49.87		ug/L		100	74 - 134
Trichloroethene	ND		50.0	47.83		ug/L		96	73 - 144
Trichlorofluoromethane	ND		50.0	59.96		ug/L		120	58 - 139
1,2,3-Trichloropropane	ND		50.0	45.99		ug/L		92	53 - 144
1,2,4-Trimethylbenzene	ND		50.0	52.57		ug/L		105	69 - 136
1,3,5-Trimethylbenzene	ND		50.0	53.45		ug/L		107	69 - 139
Vinyl chloride	ND		50.0	58.23		ug/L		116	56 - 129
Xylenes, Total	ND		100	102.0		ug/L		102	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*93*		*70 - 130*

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

Lab Sample ID: 490-90849-A-2 MSD
Matrix: Water
Analysis Batch: 295526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	232.7		ug/L		93	45 - 141	6	21
Benzene	ND		50.0	48.62		ug/L		97	75 - 133	5	17
Bromobenzene	ND		50.0	47.96		ug/L		96	60 - 138	4	20
Bromochloromethane	ND		50.0	42.19		ug/L		84	67 - 139	6	17
Bromodichloromethane	ND		50.0	45.98		ug/L		92	70 - 140	4	18
Bromoform	ND		50.0	47.86		ug/L		96	42 - 147	4	16
Bromomethane	ND		50.0	68.11		ug/L		136	16 - 163	5	50
2-Butanone (MEK)	ND		250	229.2		ug/L		92	50 - 138	4	19
Carbon disulfide	ND		50.0	43.05		ug/L		86	48 - 152	6	21
Carbon tetrachloride	ND		50.0	48.32		ug/L		97	62 - 164	5	19
Chlorobenzene	ND		50.0	47.32		ug/L		95	80 - 129	4	14
Chlorodibromomethane	ND		50.0	50.58		ug/L		101	66 - 140	2	15
Chloroethane	ND		50.0	55.10		ug/L		110	58 - 137	9	20
Chloroform	ND		50.0	49.17		ug/L		98	66 - 138	4	18
Chloromethane	ND		50.0	71.60		ug/L		143	10 - 169	6	31
2-Chlorotoluene	ND		50.0	50.38		ug/L		101	67 - 138	2	17
4-Chlorotoluene	ND		50.0	52.13		ug/L		104	69 - 138	2	18
cis-1,2-Dichloroethene	ND		50.0	46.27		ug/L		93	68 - 138	8	17
cis-1,3-Dichloropropene	ND		50.0	45.40		ug/L		91	71 - 141	1	15
1,2-Dibromo-3-Chloropropane	ND		50.0	45.56		ug/L		91	52 - 126	3	24
1,2-Dibromoethane (EDB)	ND		50.0	48.22		ug/L		96	75 - 137	2	15
Dibromomethane	ND		50.0	43.55		ug/L		87	58 - 140	6	16
1,2-Dichlorobenzene	ND		50.0	49.86		ug/L		100	79 - 128	1	15
1,3-Dichlorobenzene	ND		50.0	49.49		ug/L		99	77 - 131	2	15
1,4-Dichlorobenzene	ND		50.0	48.03		ug/L		96	78 - 126	1	15
Dichlorodifluoromethane	ND	F1 *	50.0	59.49		ug/L		119	40 - 127	13	18
1,1-Dichloroethane	ND		50.0	48.65		ug/L		97	71 - 139	4	17
1,2-Dichloroethane	ND		50.0	46.74		ug/L		93	64 - 136	5	17
1,1-Dichloroethene	ND		50.0	47.26		ug/L		95	70 - 142	6	17
1,2-Dichloropropane	ND		50.0	41.35		ug/L		83	67 - 131	5	17
1,3-Dichloropropane	ND		50.0	47.31		ug/L		95	72 - 134	3	14
2,2-Dichloropropane	ND		50.0	45.33		ug/L		91	37 - 175	7	18
1,1-Dichloropropene	ND		50.0	50.25		ug/L		100	76 - 139	5	17
Diisopropyl ether	ND		50.0	47.76		ug/L		96	10 - 200	2	50
Ethylbenzene	ND		50.0	50.13		ug/L		100	79 - 139	4	15
Ethyl tert-butyl ether	ND		50.0	48.18		ug/L		96	60 - 138	4	19
Hexachlorobutadiene	ND		50.0	54.55		ug/L		109	45 - 155	6	23
2-Hexanone	ND		250	221.0		ug/L		88	50 - 150	3	15
Isopropylbenzene	ND		50.0	51.80		ug/L		104	80 - 153	3	16
Methylene Chloride	ND		50.0	46.61		ug/L		93	64 - 139	4	17
4-Methyl-2-pentanone (MIBK)	ND		250	220.1		ug/L		88	50 - 147	1	17
Methyl tert-butyl ether	ND		50.0	46.70		ug/L		93	66 - 141	6	16
Naphthalene	ND		50.0	50.25		ug/L		101	55 - 140	4	26
n-Butylbenzene	ND		50.0	49.42		ug/L		99	66 - 141	1	18
N-Propylbenzene	ND		50.0	51.22		ug/L		102	69 - 142	4	17
p-Isopropyltoluene	ND		50.0	52.91		ug/L		106	71 - 137	1	16
sec-Butylbenzene	ND		50.0	52.82		ug/L		106	73 - 138	3	16
Styrene	ND		50.0	51.07		ug/L		102	61 - 148	2	24

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

Lab Sample ID: 490-90849-A-2 MSD
Matrix: Water
Analysis Batch: 295526

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether	ND		50.0	47.19		ug/L		94	61 - 138	5	15
tert-Butyl alcohol (TBA)	ND		500	504.1		ug/L		101	50 - 183	4	32
tert-Butylbenzene	ND		50.0	52.47		ug/L		105	70 - 138	2	16
1,1,1,2-Tetrachloroethane	ND		50.0	45.23		ug/L		90	73 - 141	3	16
1,1,2,2-Tetrachloroethane	ND		50.0	47.47		ug/L		95	56 - 143	2	20
Tetrachloroethene	ND		50.0	47.62		ug/L		95	72 - 145	5	16
Toluene	ND		50.0	47.32		ug/L		95	75 - 136	3	15
trans-1,2-Dichloroethene	ND		50.0	48.09		ug/L		96	66 - 143	4	16
trans-1,3-Dichloropropene	ND		50.0	53.41		ug/L		107	59 - 135	2	14
1,2,3-Trichlorobenzene	ND		50.0	52.49		ug/L		105	55 - 138	6	25
1,2,4-Trichlorobenzene	ND		50.0	43.58		ug/L		87	60 - 136	1	19
1,1,1-Trichloroethane	ND		50.0	51.09		ug/L		102	76 - 149	4	17
1,1,2-Trichloroethane	ND		50.0	48.09		ug/L		96	74 - 134	4	15
Trichloroethene	ND		50.0	40.35		ug/L		81	73 - 144	17	17
Trichlorofluoromethane	ND		50.0	56.27		ug/L		113	58 - 139	6	18
1,2,3-Trichloropropane	ND		50.0	44.39		ug/L		89	53 - 144	4	19
1,2,4-Trimethylbenzene	ND		50.0	51.06		ug/L		102	69 - 136	3	16
1,3,5-Trimethylbenzene	ND		50.0	52.02		ug/L		104	69 - 139	3	17
Vinyl chloride	ND		50.0	54.22		ug/L		108	56 - 129	7	17
Xylenes, Total	ND		100	98.73		ug/L		99	74 - 141	3	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*95*		*70 - 130*

Lab Sample ID: MB 490-295892/7
Matrix: Water
Analysis Batch: 295892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		25.0		ug/L			11/05/15 13:46	1
Benzene	ND		1.00		ug/L			11/05/15 13:46	1
Bromobenzene	ND		1.00		ug/L			11/05/15 13:46	1
Bromochloromethane	ND		1.00		ug/L			11/05/15 13:46	1
Bromodichloromethane	ND		1.00		ug/L			11/05/15 13:46	1
Bromoform	ND		1.00		ug/L			11/05/15 13:46	1
Bromomethane	ND		1.00		ug/L			11/05/15 13:46	1
2-Butanone (MEK)	ND		50.0		ug/L			11/05/15 13:46	1
Carbon disulfide	ND		1.00		ug/L			11/05/15 13:46	1
Carbon tetrachloride	ND		1.00		ug/L			11/05/15 13:46	1
Chlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
Chlorodibromomethane	ND		1.00		ug/L			11/05/15 13:46	1
Chloroethane	ND		1.00		ug/L			11/05/15 13:46	1
Chloroform	ND		1.00		ug/L			11/05/15 13:46	1
Chloromethane	ND		1.00		ug/L			11/05/15 13:46	1
2-Chlorotoluene	ND		1.00		ug/L			11/05/15 13:46	1

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

Lab Sample ID: MB 490-295892/7
Matrix: Water
Analysis Batch: 295892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Chlorotoluene	ND		1.00		ug/L			11/05/15 13:46	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			11/05/15 13:46	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			11/05/15 13:46	1
1,2-Dibromo-3-Chloropropane	ND		10.0		ug/L			11/05/15 13:46	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			11/05/15 13:46	1
Dibromomethane	ND		1.00		ug/L			11/05/15 13:46	1
1,2-Dichlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,3-Dichlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,4-Dichlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
Dichlorodifluoromethane	ND		1.00		ug/L			11/05/15 13:46	1
1,1-Dichloroethane	ND		1.00		ug/L			11/05/15 13:46	1
1,2-Dichloroethane	ND		1.00		ug/L			11/05/15 13:46	1
1,1-Dichloroethene	ND		1.00		ug/L			11/05/15 13:46	1
1,2-Dichloropropane	ND		1.00		ug/L			11/05/15 13:46	1
1,3-Dichloropropane	ND		1.00		ug/L			11/05/15 13:46	1
2,2-Dichloropropane	ND		1.00		ug/L			11/05/15 13:46	1
1,1-Dichloropropene	ND		1.00		ug/L			11/05/15 13:46	1
Diisopropyl ether	ND		2.00		ug/L			11/05/15 13:46	1
Ethylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
Ethyl tert-butyl ether	ND		1.00		ug/L			11/05/15 13:46	1
Hexachlorobutadiene	ND		2.00		ug/L			11/05/15 13:46	1
2-Hexanone	ND		10.0		ug/L			11/05/15 13:46	1
Isopropylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
Methylene Chloride	ND		5.00		ug/L			11/05/15 13:46	1
4-Methyl-2-pentanone (MIBK)	ND		10.0		ug/L			11/05/15 13:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			11/05/15 13:46	1
Naphthalene	ND		5.00		ug/L			11/05/15 13:46	1
n-Butylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
N-Propylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
p-Isopropyltoluene	ND		1.00		ug/L			11/05/15 13:46	1
sec-Butylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
Styrene	ND		1.00		ug/L			11/05/15 13:46	1
Tert-amyl methyl ether	ND		1.00		ug/L			11/05/15 13:46	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			11/05/15 13:46	1
tert-Butylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			11/05/15 13:46	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			11/05/15 13:46	1
Tetrachloroethene	ND		1.00		ug/L			11/05/15 13:46	1
Toluene	ND		1.00		ug/L			11/05/15 13:46	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			11/05/15 13:46	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			11/05/15 13:46	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,1,1-Trichloroethane	ND		1.00		ug/L			11/05/15 13:46	1
1,1,2-Trichloroethane	ND		1.00		ug/L			11/05/15 13:46	1
Trichloroethene	ND		1.00		ug/L			11/05/15 13:46	1
Trichlorofluoromethane	ND		1.00		ug/L			11/05/15 13:46	1
1,2,3-Trichloropropane	ND		1.00		ug/L			11/05/15 13:46	1

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

Lab Sample ID: MB 490-295892/7
Matrix: Water
Analysis Batch: 295892

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			11/05/15 13:46	1
Vinyl chloride	ND		1.00		ug/L			11/05/15 13:46	1
Xylenes, Total	ND		3.00		ug/L			11/05/15 13:46	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*		*11/05/15 13:46*	*1*
Dibromofluoromethane (Surr)	*96*		*70 - 130*		*11/05/15 13:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*11/05/15 13:46*	*1*
Toluene-d8 (Surr)	*98*		*70 - 130*		*11/05/15 13:46*	*1*

Lab Sample ID: LCS 490-295892/3
Matrix: Water
Analysis Batch: 295892

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	114.9		ug/L		115	54 - 145
Benzene	20.0	20.89		ug/L		104	80 - 121
Bromobenzene	20.0	19.95		ug/L		100	68 - 130
Bromochloromethane	20.0	17.11		ug/L		86	78 - 129
Bromodichloromethane	20.0	19.37		ug/L		97	75 - 129
Bromoform	20.0	19.96		ug/L		100	46 - 145
Bromomethane	20.0	19.36		ug/L		97	41 - 150
2-Butanone (MEK)	100	106.3		ug/L		106	62 - 133
Carbon disulfide	20.0	20.01		ug/L		100	77 - 126
Carbon tetrachloride	20.0	19.80		ug/L		99	64 - 147
Chlorobenzene	20.0	20.24		ug/L		101	80 - 120
Chlorodibromomethane	20.0	21.34		ug/L		107	69 - 133
Chloroethane	20.0	19.92		ug/L		100	72 - 120
Chloroform	20.0	20.60		ug/L		103	73 - 129
Chloromethane	20.0	22.28		ug/L		111	12 - 150
2-Chlorotoluene	20.0	20.38		ug/L		102	75 - 126
4-Chlorotoluene	20.0	20.87		ug/L		104	75 - 130
cis-1,2-Dichloroethene	20.0	20.60		ug/L		103	76 - 125
cis-1,3-Dichloropropene	20.0	19.31		ug/L		97	74 - 140
1,2-Dibromo-3-Chloropropane	20.0	19.77		ug/L		99	54 - 125
1,2-Dibromoethane (EDB)	20.0	21.68		ug/L		108	80 - 129
Dibromomethane	20.0	19.28		ug/L		96	71 - 125
1,2-Dichlorobenzene	20.0	20.33		ug/L		102	80 - 121
1,3-Dichlorobenzene	20.0	20.68		ug/L		103	80 - 122
1,4-Dichlorobenzene	20.0	19.63		ug/L		98	80 - 120
Dichlorodifluoromethane	20.0	23.17		ug/L		116	37 - 127
1,1-Dichloroethane	20.0	20.32		ug/L		102	78 - 125
1,2-Dichloroethane	20.0	20.41		ug/L		102	77 - 121
1,1-Dichloroethene	20.0	21.06		ug/L		105	79 - 124
1,2-Dichloropropane	20.0	17.68		ug/L		88	75 - 120
1,3-Dichloropropane	20.0	21.04		ug/L		105	80 - 125
2,2-Dichloropropane	20.0	19.83		ug/L		99	43 - 161

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

Lab Sample ID: LCS 490-295892/3
Matrix: Water
Analysis Batch: 295892

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	20.0	21.41		ug/L		107	80 - 122
Diisopropyl ether	20.0	20.15		ug/L		101	61 - 142
Ethylbenzene	20.0	21.48		ug/L		107	80 - 130
Ethyl tert-butyl ether	20.0	20.76		ug/L		104	63 - 135
Hexachlorobutadiene	20.0	23.01		ug/L		115	49 - 146
2-Hexanone	100	103.4		ug/L		103	60 - 142
Isopropylbenzene	20.0	21.76		ug/L		109	80 - 141
Methylene Chloride	20.0	20.17		ug/L		101	79 - 123
4-Methyl-2-pentanone (MIBK)	100	99.49		ug/L		99	60 - 137
Methyl tert-butyl ether	20.0	20.53		ug/L		103	72 - 133
Naphthalene	20.0	22.10		ug/L		111	62 - 138
n-Butylbenzene	20.0	20.58		ug/L		103	68 - 132
N-Propylbenzene	20.0	21.17		ug/L		106	75 - 129
p-Isopropyltoluene	20.0	21.56		ug/L		108	75 - 128
sec-Butylbenzene	20.0	21.53		ug/L		108	76 - 128
Styrene	20.0	21.68		ug/L		108	80 - 127
Tert-amyl methyl ether	20.0	20.26		ug/L		101	63 - 135
tert-Butyl alcohol (TBA)	200	226.2		ug/L		113	54 - 150
tert-Butylbenzene	20.0	21.55		ug/L		108	76 - 126
1,1,1,2-Tetrachloroethane	20.0	19.73		ug/L		99	74 - 135
1,1,2,2-Tetrachloroethane	20.0	21.37		ug/L		107	69 - 131
Tetrachloroethene	20.0	20.30		ug/L		102	80 - 126
Toluene	20.0	20.84		ug/L		104	80 - 126
trans-1,2-Dichloroethene	20.0	20.78		ug/L		104	79 - 126
trans-1,3-Dichloropropene	20.0	23.09		ug/L		115	63 - 134
1,2,3-Trichlorobenzene	20.0	23.05		ug/L		115	62 - 133
1,2,4-Trichlorobenzene	20.0	18.96		ug/L		95	63 - 133
1,1,1-Trichloroethane	20.0	21.36		ug/L		107	78 - 135
1,1,2-Trichloroethane	20.0	21.07		ug/L		105	80 - 124
Trichloroethene	20.0	17.49		ug/L		87	80 - 123
Trichlorofluoromethane	20.0	21.11		ug/L		106	65 - 124
1,2,3-Trichloropropane	20.0	19.86		ug/L		99	70 - 131
1,2,4-Trimethylbenzene	20.0	20.97		ug/L		105	77 - 126
1,3,5-Trimethylbenzene	20.0	21.48		ug/L		107	77 - 127
Vinyl chloride	20.0	19.85		ug/L		99	68 - 120
Xylenes, Total	40.0	42.62		ug/L		107	80 - 132

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

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

Lab Sample ID: LCSD 490-295892/4
Matrix: Water
Analysis Batch: 295892

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	100	119.1		ug/L		119	54 - 145	4	21
Benzene	20.0	22.24		ug/L		111	80 - 121	6	17
Bromobenzene	20.0	21.20		ug/L		106	68 - 130	6	20
Bromochloromethane	20.0	18.53		ug/L		93	78 - 129	8	17
Bromodichloromethane	20.0	20.40		ug/L		102	75 - 129	5	18
Bromoform	20.0	20.55		ug/L		103	46 - 145	3	16
Bromomethane	20.0	20.03		ug/L		100	41 - 150	3	50
2-Butanone (MEK)	100	109.6		ug/L		110	62 - 133	3	19
Carbon disulfide	20.0	20.67		ug/L		103	77 - 126	3	21
Carbon tetrachloride	20.0	20.77		ug/L		104	64 - 147	5	19
Chlorobenzene	20.0	21.29		ug/L		106	80 - 120	5	14
Chlorodibromomethane	20.0	21.79		ug/L		109	69 - 133	2	15
Chloroethane	20.0	20.66		ug/L		103	72 - 120	4	20
Chloroform	20.0	21.63		ug/L		108	73 - 129	5	18
Chloromethane	20.0	21.93		ug/L		110	12 - 150	2	31
2-Chlorotoluene	20.0	21.05		ug/L		105	75 - 126	3	17
4-Chlorotoluene	20.0	21.92		ug/L		110	75 - 130	5	18
cis-1,2-Dichloroethene	20.0	21.63		ug/L		108	76 - 125	5	17
cis-1,3-Dichloropropene	20.0	20.14		ug/L		101	74 - 140	4	15
1,2-Dibromo-3-Chloropropane	20.0	21.07		ug/L		105	54 - 125	6	24
1,2-Dibromoethane (EDB)	20.0	22.42		ug/L		112	80 - 129	3	15
Dibromomethane	20.0	19.78		ug/L		99	71 - 125	3	16
1,2-Dichlorobenzene	20.0	21.99		ug/L		110	80 - 121	8	15
1,3-Dichlorobenzene	20.0	21.75		ug/L		109	80 - 122	5	15
1,4-Dichlorobenzene	20.0	20.74		ug/L		104	80 - 120	6	15
Dichlorodifluoromethane	20.0	24.94		ug/L		125	37 - 127	7	18
1,1-Dichloroethane	20.0	21.91		ug/L		110	78 - 125	8	17
1,2-Dichloroethane	20.0	22.17		ug/L		111	77 - 121	8	17
1,1-Dichloroethene	20.0	21.43		ug/L		107	79 - 124	2	17
1,2-Dichloropropane	20.0	18.80		ug/L		94	75 - 120	6	17
1,3-Dichloropropane	20.0	21.80		ug/L		109	80 - 125	4	14
2,2-Dichloropropane	20.0	20.30		ug/L		102	43 - 161	2	18
1,1-Dichloropropene	20.0	22.23		ug/L		111	80 - 122	4	17
Diisopropyl ether	20.0	21.54		ug/L		108	61 - 142	7	50
Ethylbenzene	20.0	22.18		ug/L		111	80 - 130	3	15
Ethyl tert-butyl ether	20.0	22.19		ug/L		111	63 - 135	7	19
Hexachlorobutadiene	20.0	23.79		ug/L		119	49 - 146	3	23
2-Hexanone	100	108.3		ug/L		108	60 - 142	5	15
Isopropylbenzene	20.0	22.41		ug/L		112	80 - 141	3	16
Methylene Chloride	20.0	21.60		ug/L		108	79 - 123	7	17
4-Methyl-2-pentanone (MIBK)	100	101.5		ug/L		101	60 - 137	2	17
Methyl tert-butyl ether	20.0	21.58		ug/L		108	72 - 133	5	16
Naphthalene	20.0	23.19		ug/L		116	62 - 138	5	26
n-Butylbenzene	20.0	20.93		ug/L		105	68 - 132	2	18
N-Propylbenzene	20.0	21.88		ug/L		109	75 - 129	3	17
p-Isopropyltoluene	20.0	22.51		ug/L		113	75 - 128	4	16
sec-Butylbenzene	20.0	22.71		ug/L		114	76 - 128	5	16
Styrene	20.0	22.22		ug/L		111	80 - 127	2	24

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

Lab Sample ID: LCSD 490-295892/4
Matrix: Water
Analysis Batch: 295892

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Tert-amyl methyl ether			20.0	21.76		ug/L		109	63 - 135	7	15
tert-Butyl alcohol (TBA)			200	243.8		ug/L		122	54 - 150	7	32
tert-Butylbenzene			20.0	22.40		ug/L		112	76 - 126	4	16
1,1,1,2-Tetrachloroethane			20.0	20.09		ug/L		100	74 - 135	2	16
1,1,2,2-Tetrachloroethane			20.0	22.04		ug/L		110	69 - 131	3	20
Tetrachloroethene			20.0	21.45		ug/L		107	80 - 126	6	16
Toluene			20.0	21.49		ug/L		107	80 - 126	3	15
trans-1,2-Dichloroethene			20.0	21.83		ug/L		109	79 - 126	5	16
trans-1,3-Dichloropropene			20.0	23.75		ug/L		119	63 - 134	3	14
1,2,3-Trichlorobenzene			20.0	24.48		ug/L		122	62 - 133	6	25
1,2,4-Trichlorobenzene			20.0	20.18		ug/L		101	63 - 133	6	19
1,1,1-Trichloroethane			20.0	21.74		ug/L		109	78 - 135	2	17
1,1,2-Trichloroethane			20.0	22.15		ug/L		111	80 - 124	5	15
Trichloroethene			20.0	17.90		ug/L		89	80 - 123	2	17
Trichlorofluoromethane			20.0	21.41		ug/L		107	65 - 124	1	18
1,2,3-Trichloropropane			20.0	20.33		ug/L		102	70 - 131	2	19
1,2,4-Trimethylbenzene			20.0	22.05		ug/L		110	77 - 126	5	16
1,3,5-Trimethylbenzene			20.0	22.32		ug/L		112	77 - 127	4	17
Vinyl chloride			20.0	21.56		ug/L		108	68 - 120	8	17
Xylenes, Total			40.0	43.55		ug/L		109	80 - 132	2	15

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: 490-91065-B-15 MS
Matrix: Water
Analysis Batch: 295892

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Acetone	ND		250	243.5		ug/L		90	45 - 141		
Benzene	ND		50.0	50.99		ug/L		102	75 - 133		
Bromobenzene	ND		50.0	48.89		ug/L		98	60 - 138		
Bromochloromethane	ND		50.0	45.75		ug/L		92	67 - 139		
Bromodichloromethane	ND		50.0	47.81		ug/L		96	70 - 140		
Bromoform	ND		50.0	46.97		ug/L		94	42 - 147		
Bromomethane	ND		50.0	37.09		ug/L		74	16 - 163		
2-Butanone (MEK)	ND		250	229.8		ug/L		92	50 - 138		
Carbon disulfide	ND		50.0	40.62		ug/L		81	48 - 152		
Carbon tetrachloride	ND		50.0	50.21		ug/L		100	62 - 164		
Chlorobenzene	ND		50.0	49.68		ug/L		99	80 - 129		
Chlorodibromomethane	ND		50.0	52.22		ug/L		104	66 - 140		
Chloroethane	ND		50.0	49.44		ug/L		99	58 - 137		
Chloroform	ND		50.0	51.78		ug/L		104	66 - 138		
Chloromethane	ND		50.0	50.21		ug/L		100	10 - 169		
2-Chlorotoluene	ND		50.0	51.98		ug/L		104	67 - 138		

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

Lab Sample ID: 490-91065-B-15 MS
Matrix: Water
Analysis Batch: 295892

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Chlorotoluene	ND		50.0	53.96		ug/L		108	69 - 138
cis-1,2-Dichloroethene	ND		50.0	49.29		ug/L		99	68 - 138
cis-1,3-Dichloropropene	ND		50.0	46.63		ug/L		93	71 - 141
1,2-Dibromo-3-Chloropropane	ND		50.0	42.58		ug/L		85	52 - 126
1,2-Dibromoethane (EDB)	ND		50.0	49.78		ug/L		100	75 - 137
Dibromomethane	ND		50.0	46.57		ug/L		93	58 - 140
1,2-Dichlorobenzene	ND		50.0	51.18		ug/L		102	79 - 128
1,3-Dichlorobenzene	ND		50.0	50.81		ug/L		102	77 - 131
1,4-Dichlorobenzene	ND		50.0	48.68		ug/L		97	78 - 126
Dichlorodifluoromethane	ND		50.0	52.01		ug/L		104	40 - 127
1,1-Dichloroethane	ND		50.0	51.36		ug/L		103	71 - 139
1,2-Dichloroethane	ND		50.0	49.17		ug/L		98	64 - 136
1,1-Dichloroethene	ND		50.0	48.28		ug/L		97	70 - 142
1,2-Dichloropropane	ND		50.0	49.76		ug/L		100	67 - 131
1,3-Dichloropropane	ND		50.0	49.17		ug/L		98	72 - 134
2,2-Dichloropropane	ND		50.0	47.98		ug/L		96	37 - 175
1,1-Dichloropropene	ND		50.0	51.98		ug/L		104	76 - 139
Diisopropyl ether	ND		50.0	49.09		ug/L		98	10 - 200
Ethylbenzene	ND		50.0	53.79		ug/L		108	79 - 139
Ethyl tert-butyl ether	ND		50.0	49.95		ug/L		100	60 - 138
Hexachlorobutadiene	ND		50.0	49.86		ug/L		100	45 - 155
2-Hexanone	ND		250	233.3		ug/L		93	50 - 150
Isopropylbenzene	ND		50.0	54.57		ug/L		109	80 - 153
Methylene Chloride	ND		50.0	46.82		ug/L		94	64 - 139
4-Methyl-2-pentanone (MIBK)	ND		250	226.9		ug/L		91	50 - 147
Methyl tert-butyl ether	ND		50.0	47.37		ug/L		95	66 - 141
Naphthalene	ND		50.0	44.85		ug/L		90	55 - 140
n-Butylbenzene	ND		50.0	51.13		ug/L		102	66 - 141
N-Propylbenzene	ND		50.0	53.08		ug/L		106	69 - 142
p-Isopropyltoluene	ND		50.0	54.36		ug/L		109	71 - 137
sec-Butylbenzene	ND		50.0	54.44		ug/L		109	73 - 138
Styrene	ND		50.0	53.57		ug/L		107	61 - 148
Tert-amyl methyl ether	ND		50.0	47.55		ug/L		95	61 - 138
tert-Butyl alcohol (TBA)	ND		500	390.4		ug/L		78	50 - 183
tert-Butylbenzene	ND		50.0	53.57		ug/L		107	70 - 138
1,1,1,2-Tetrachloroethane	ND		50.0	48.10		ug/L		96	73 - 141
1,1,2,2-Tetrachloroethane	ND		50.0	47.27		ug/L		95	56 - 143
Tetrachloroethene	ND		50.0	50.29		ug/L		101	72 - 145
Toluene	ND		50.0	49.71		ug/L		99	75 - 136
trans-1,2-Dichloroethene	ND		50.0	49.12		ug/L		98	66 - 143
trans-1,3-Dichloropropene	ND		50.0	54.20		ug/L		108	59 - 135
1,2,3-Trichlorobenzene	ND		50.0	46.14		ug/L		92	55 - 138
1,2,4-Trichlorobenzene	ND		50.0	41.15		ug/L		82	60 - 136
1,1,1-Trichloroethane	ND		50.0	53.10		ug/L		106	76 - 149
1,1,2-Trichloroethane	ND		50.0	50.51		ug/L		101	74 - 134
Trichloroethene	ND		50.0	48.78		ug/L		98	73 - 144
Trichlorofluoromethane	ND		50.0	53.91		ug/L		108	58 - 139
1,2,3-Trichloropropane	ND		50.0	46.20		ug/L		92	53 - 144

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

Lab Sample ID: 490-91065-B-15 MS
Matrix: Water
Analysis Batch: 295892

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trimethylbenzene	ND		50.0	51.58		ug/L		103	69 - 136
1,3,5-Trimethylbenzene	ND		50.0	53.38		ug/L		107	69 - 139
Vinyl chloride	ND		50.0	50.07		ug/L		100	56 - 129
Xylenes, Total	ND		100	105.5		ug/L		105	74 - 141

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Toluene-d8 (Surr)	*96*		*70 - 130*

Lab Sample ID: 490-91065-C-15 MSD
Matrix: Water
Analysis Batch: 295892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		250	250.7		ug/L		93	45 - 141	3	21
Benzene	ND		50.0	50.76		ug/L		102	75 - 133	0	17
Bromobenzene	ND		50.0	47.92		ug/L		96	60 - 138	2	20
Bromochloromethane	ND		50.0	43.27		ug/L		87	67 - 139	6	17
Bromodichloromethane	ND		50.0	48.20		ug/L		96	70 - 140	1	18
Bromoform	ND		50.0	48.06		ug/L		96	42 - 147	2	16
Bromomethane	ND		50.0	48.19		ug/L		96	16 - 163	26	50
2-Butanone (MEK)	ND		250	233.3		ug/L		93	50 - 138	2	19
Carbon disulfide	ND		50.0	41.00		ug/L		82	48 - 152	1	21
Carbon tetrachloride	ND		50.0	50.42		ug/L		101	62 - 164	0	19
Chlorobenzene	ND		50.0	48.01		ug/L		96	80 - 129	3	14
Chlorodibromomethane	ND		50.0	50.91		ug/L		102	66 - 140	3	15
Chloroethane	ND		50.0	53.70		ug/L		107	58 - 137	8	20
Chloroform	ND		50.0	51.07		ug/L		102	66 - 138	1	18
Chloromethane	ND		50.0	52.95		ug/L		106	10 - 169	5	31
2-Chlorotoluene	ND		50.0	49.82		ug/L		100	67 - 138	4	17
4-Chlorotoluene	ND		50.0	51.72		ug/L		103	69 - 138	4	18
cis-1,2-Dichloroethene	ND		50.0	49.27		ug/L		99	68 - 138	0	17
cis-1,3-Dichloropropene	ND		50.0	46.24		ug/L		92	71 - 141	1	15
1,2-Dibromo-3-Chloropropane	ND		50.0	42.28		ug/L		85	52 - 126	1	24
1,2-Dibromoethane (EDB)	ND		50.0	48.83		ug/L		98	75 - 137	2	15
Dibromomethane	ND		50.0	45.10		ug/L		90	58 - 140	3	16
1,2-Dichlorobenzene	ND		50.0	49.78		ug/L		100	79 - 128	3	15
1,3-Dichlorobenzene	ND		50.0	49.25		ug/L		99	77 - 131	3	15
1,4-Dichlorobenzene	ND		50.0	46.39		ug/L		93	78 - 126	5	15
Dichlorodifluoromethane	ND		50.0	51.70		ug/L		103	40 - 127	1	18
1,1-Dichloroethane	ND		50.0	50.88		ug/L		102	71 - 139	1	17
1,2-Dichloroethane	ND		50.0	48.79		ug/L		98	64 - 136	1	17
1,1-Dichloroethene	ND		50.0	48.39		ug/L		97	70 - 142	0	17
1,2-Dichloropropane	ND		50.0	42.92		ug/L		86	67 - 131	15	17
1,3-Dichloropropane	ND		50.0	48.27		ug/L		97	72 - 134	2	14
2,2-Dichloropropane	ND		50.0	47.88		ug/L		96	37 - 175	0	18

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

Lab Sample ID: 490-91065-C-15 MSD
Matrix: Water
Analysis Batch: 295892

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene	ND		50.0	52.16		ug/L		104	76 - 139	0	17
Diisopropyl ether	ND		50.0	48.77		ug/L		98	10 - 200	1	50
Ethylbenzene	ND		50.0	51.86		ug/L		104	79 - 139	4	15
Ethyl tert-butyl ether	ND		50.0	50.19		ug/L		100	60 - 138	0	19
Hexachlorobutadiene	ND		50.0	52.24		ug/L		104	45 - 155	5	23
2-Hexanone	ND		250	227.9		ug/L		91	50 - 150	2	15
Isopropylbenzene	ND		50.0	53.06		ug/L		106	80 - 153	3	16
Methylene Chloride	ND		50.0	47.17		ug/L		94	64 - 139	1	17
4-Methyl-2-pentanone (MIBK)	ND		250	225.6		ug/L		90	50 - 147	1	17
Methyl tert-butyl ether	ND		50.0	48.75		ug/L		98	66 - 141	3	16
Naphthalene	ND		50.0	49.59		ug/L		99	55 - 140	10	26
n-Butylbenzene	ND		50.0	49.41		ug/L		99	66 - 141	3	18
N-Propylbenzene	ND		50.0	51.14		ug/L		102	69 - 142	4	17
p-Isopropyltoluene	ND		50.0	52.75		ug/L		105	71 - 137	3	16
sec-Butylbenzene	ND		50.0	53.40		ug/L		107	73 - 138	2	16
Styrene	ND		50.0	52.66		ug/L		105	61 - 148	2	24
Tert-amyl methyl ether	ND		50.0	48.08		ug/L		96	61 - 138	1	15
tert-Butyl alcohol (TBA)	ND		500	431.5		ug/L		86	50 - 183	10	32
tert-Butylbenzene	ND		50.0	52.77		ug/L		106	70 - 138	2	16
1,1,1,2-Tetrachloroethane	ND		50.0	46.26		ug/L		93	73 - 141	4	16
1,1,2,2-Tetrachloroethane	ND		50.0	47.02		ug/L		94	56 - 143	1	20
Tetrachloroethene	ND		50.0	48.83		ug/L		98	72 - 145	3	16
Toluene	ND		50.0	49.25		ug/L		98	75 - 136	1	15
trans-1,2-Dichloroethene	ND		50.0	49.45		ug/L		99	66 - 143	1	16
trans-1,3-Dichloropropene	ND		50.0	54.51		ug/L		109	59 - 135	1	14
1,2,3-Trichlorobenzene	ND		50.0	52.19		ug/L		104	55 - 138	12	25
1,2,4-Trichlorobenzene	ND		50.0	42.75		ug/L		85	60 - 136	4	19
1,1,1-Trichloroethane	ND		50.0	53.07		ug/L		106	76 - 149	0	17
1,1,2-Trichloroethane	ND		50.0	49.72		ug/L		99	74 - 134	2	15
Trichloroethene	ND		50.0	42.32		ug/L		85	73 - 144	14	17
Trichlorofluoromethane	ND		50.0	53.87		ug/L		108	58 - 139	0	18
1,2,3-Trichloropropane	ND		50.0	43.82		ug/L		88	53 - 144	5	19
1,2,4-Trimethylbenzene	ND		50.0	51.33		ug/L		103	69 - 136	0	16
1,3,5-Trimethylbenzene	ND		50.0	52.02		ug/L		104	69 - 139	3	17
Vinyl chloride	ND		50.0	51.76		ug/L		104	56 - 129	3	17
Xylenes, Total	ND		100	101.3		ug/L		101	74 - 141	4	15

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-297425/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297425

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			11/09/15 19:15	1

Lab Sample ID: LCS 490-297425/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297425

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	99.77		mg/L		100	80 - 120

Lab Sample ID: LCSD 490-297425/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297425

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	99.99		mg/L		100	80 - 120	0	20

Lab Sample ID: 490-90930-1 MS — **Client Sample ID: MW1A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297425

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	ND		100	103.1		mg/L		103	80 - 120

Lab Sample ID: 490-90930-1 MSD — **Client Sample ID: MW1A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297425

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		100	101.9		mg/L		102	80 - 120	1	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-295048/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295048**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		11/02/15 20:05	11/04/15 16:34	1

Lab Sample ID: LCS 490-295048/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295048**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	1.046		mg/L		105	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCSD 490-295048/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295048**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			1.00	1.056		mg/L		106	80 - 120	1	20

Lab Sample ID: 490-90292-K-2-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295048**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	1.62	F1	1.00	3.021	F1	mg/L		140	75 - 125		

Lab Sample ID: 490-90292-K-2-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295048**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	1.62	F1	1.00	3.137	F1	mg/L		151	75 - 125	4	20

Lab Sample ID: MB 490-295251/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295836 — **Prep Batch: 295251**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		11/03/15 13:30	11/04/15 16:56	1

Lab Sample ID: LCS 490-295251/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295836 — **Prep Batch: 295251**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			1.00	0.9814		mg/L		98	80 - 120		

Lab Sample ID: 240-57265-H-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295836 — **Prep Batch: 295251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	ND		1.00	0.9764		mg/L		98	75 - 125		

Lab Sample ID: 240-57265-H-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295836 — **Prep Batch: 295251**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		1.00	0.9686		mg/L		97	75 - 125	1	20

Lab Sample ID: MB 490-295575/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295575**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		11/04/15 12:00	11/05/15 00:04	1

Lab Sample ID: LCS 490-295575/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295575**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	1.038		mg/L		104	80 - 120

Lab Sample ID: LCSD 490-295575/20-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295575**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	1.00	1.031		mg/L		103	80 - 120	1	20

Lab Sample ID: 490-91057-A-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	ND		1.00	1.030		mg/L		103	75 - 125

Lab Sample ID: 490-91057-A-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 295868 — **Prep Batch: 295575**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		1.00	1.045		mg/L		105	75 - 125	1	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 490-297217/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297217

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 13:15	1

Lab Sample ID: LCS 490-297217/7 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297217

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate/Nitrite	0.996	1.072		mg/L		108	90 - 110

Lab Sample ID: LCSD 490-297217/8 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297217

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite	0.996	1.063		mg/L		107	90 - 110	1	20

Method: 353.2 - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 490-90930-1 MS — **Client Sample ID: MW1A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297217

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite	ND		0.996	1.047		mg/L		105	90 - 110		

Lab Sample ID: 490-90930-1 MSD — **Client Sample ID: MW1A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297217

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite	ND		0.996	1.079		mg/L		108	90 - 110	3	20

Lab Sample ID: MB 490-297237/4 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297237

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/10/15 14:01	1

Lab Sample ID: LCS 490-297237/5 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297237

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite			0.996	1.071		mg/L		108	90 - 110		

Lab Sample ID: LCSD 490-297237/6 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297237

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite			0.996	1.057		mg/L		106	90 - 110	1	20

Lab Sample ID: 490-90930-11 MS — **Client Sample ID: MW15A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297237

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite	0.468	F1	0.996	1.579	F1	mg/L		112	90 - 110		

Lab Sample ID: 490-90930-11 MSD — **Client Sample ID: MW15A(102915)**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297237

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite	0.468	F1	0.996	1.568		mg/L		110	90 - 110	1	20

Lab Sample ID: MB 490-297862/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 297862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			11/12/15 10:54	1

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Lab Sample ID: LCS 490-297862/7
Matrix: Water
Analysis Batch: 297862

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite			0.996	1.066		mg/L		107	90 - 110		

Lab Sample ID: LCSD 490-297862/8
Matrix: Water
Analysis Batch: 297862

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite			0.996	1.078		mg/L		108	90 - 110	1	20

Lab Sample ID: 490-91414-A-1 MS
Matrix: Water
Analysis Batch: 297862

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite	ND	F1	0.996	1.097		mg/L		110	90 - 110		

Lab Sample ID: 490-91414-A-1 MSD
Matrix: Water
Analysis Batch: 297862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Nitrate/Nitrite	ND	F1	0.996	1.120	F1	mg/L		112	90 - 110	2	20

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

GC/MS VOA

Analysis Batch: 295526

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90849-A-2 MS	Matrix Spike	Total/NA	Water	8260B	
490-90849-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
490-90930-1	MW1A(102915)	Total/NA	Water	8260B	
490-90930-2	MW2A(102915)	Total/NA	Water	8260B	
490-90930-3	MW3A(102915)	Total/NA	Water	8260B	
490-90930-4	MW5A(102915)	Total/NA	Water	8260B	
490-90930-5	MW8A(102915)	Total/NA	Water	8260B	
490-90930-6	MW10A(102915)	Total/NA	Water	8260B	
490-90930-7	MW11A(102915)	Total/NA	Water	8260B	
490-90930-8	MW12A(102915)	Total/NA	Water	8260B	
490-90930-9	MW13A(102915)	Total/NA	Water	8260B	
490-90930-10	MW14A(102915)	Total/NA	Water	8260B	
490-90930-11	MW15A(102915)	Total/NA	Water	8260B	
490-90930-12	MW16A(102915)	Total/NA	Water	8260B	
490-90930-13	DUP01(102915)	Total/NA	Water	8260B	
490-90930-14	RB01(102915)	Total/NA	Water	8260B	
490-90930-15	TB(102915)	Total/NA	Water	8260B	
LCS 490-295526/3	Lab Control Sample	Total/NA	Water	8260B	
MB 490-295526/6	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 295892

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-1	MW1A(102915)	Total/NA	Water	8260B	
490-90930-2	MW2A(102915)	Total/NA	Water	8260B	
490-90930-13	DUP01(102915)	Total/NA	Water	8260B	
490-91065-B-15 MS	Matrix Spike	Total/NA	Water	8260B	
490-91065-C-15 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	
LCS 490-295892/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 490-295892/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 490-295892/7	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 297425

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-1	MW1A(102915)	Total/NA	Water	9056A	
490-90930-1 MS	MW1A(102915)	Total/NA	Water	9056A	
490-90930-1 MSD	MW1A(102915)	Total/NA	Water	9056A	
490-90930-2	MW2A(102915)	Total/NA	Water	9056A	
490-90930-3	MW3A(102915)	Total/NA	Water	9056A	
490-90930-4	MW5A(102915)	Total/NA	Water	9056A	
490-90930-5	MW8A(102915)	Total/NA	Water	9056A	
490-90930-6	MW10A(102915)	Total/NA	Water	9056A	
490-90930-7	MW11A(102915)	Total/NA	Water	9056A	
490-90930-8	MW12A(102915)	Total/NA	Water	9056A	
490-90930-9	MW13A(102915)	Total/NA	Water	9056A	
490-90930-10	MW14A(102915)	Total/NA	Water	9056A	
490-90930-11	MW15A(102915)	Total/NA	Water	9056A	
490-90930-12	MW16A(102915)	Total/NA	Water	9056A	
490-90930-13	DUP01(102915)	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 297425 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-14	RB01(102915)	Total/NA	Water	9056A	
LCS 490-297425/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-297425/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-297425/3	Method Blank	Total/NA	Water	9056A	

Metals

Prep Batch: 295048

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90292-K-2-B MS	Matrix Spike	Total/NA	Water	3010A	
490-90292-K-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-90930-7	MW11A(102915)	Total/NA	Water	3010A	
490-90930-8	MW12A(102915)	Total/NA	Water	3010A	
490-90930-14	RB01(102915)	Total/NA	Water	3010A	
LCS 490-295048/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-295048/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-295048/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 295251

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57265-H-1-B MS	Matrix Spike	Total/NA	Water	3010A	
240-57265-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-90930-1	MW1A(102915)	Total/NA	Water	3010A	
490-90930-2	MW2A(102915)	Total/NA	Water	3010A	
LCS 490-295251/2-A	Lab Control Sample	Total/NA	Water	3010A	
MB 490-295251/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 295575

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-3	MW3A(102915)	Total/NA	Water	3010A	
490-90930-4	MW5A(102915)	Total/NA	Water	3010A	
490-90930-5	MW8A(102915)	Total/NA	Water	3010A	
490-90930-6	MW10A(102915)	Total/NA	Water	3010A	
490-90930-9	MW13A(102915)	Total/NA	Water	3010A	
490-90930-10	MW14A(102915)	Total/NA	Water	3010A	
490-90930-11	MW15A(102915)	Total/NA	Water	3010A	
490-90930-12	MW16A(102915)	Total/NA	Water	3010A	
490-90930-13	DUP01(102915)	Total/NA	Water	3010A	
490-91057-A-1-B MS	Matrix Spike	Total/NA	Water	3010A	
490-91057-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
LCS 490-295575/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-295575/20-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-295575/1-A	Method Blank	Total/NA	Water	3010A	

Analysis Batch: 295836

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-57265-H-1-B MS	Matrix Spike	Total/NA	Water	6010B	295251
240-57265-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	295251
490-90930-1	MW1A(102915)	Total/NA	Water	6010B	295251
490-90930-2	MW2A(102915)	Total/NA	Water	6010B	295251

Metals (Continued)

Analysis Batch: 295836 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 490-295251/2-A	Lab Control Sample	Total/NA	Water	6010B	295251
MB 490-295251/1-A	Method Blank	Total/NA	Water	6010B	295251

Analysis Batch: 295868

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90292-K-2-B MS	Matrix Spike	Total/NA	Water	6010B	295048
490-90292-K-2-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	295048
490-90930-3	MW3A(102915)	Total/NA	Water	6010B	295575
490-90930-4	MW5A(102915)	Total/NA	Water	6010B	295575
490-90930-5	MW8A(102915)	Total/NA	Water	6010B	295575
490-90930-6	MW10A(102915)	Total/NA	Water	6010B	295575
490-90930-7	MW11A(102915)	Total/NA	Water	6010B	295048
490-90930-8	MW12A(102915)	Total/NA	Water	6010B	295048
490-90930-9	MW13A(102915)	Total/NA	Water	6010B	295575
490-90930-10	MW14A(102915)	Total/NA	Water	6010B	295575
490-90930-11	MW15A(102915)	Total/NA	Water	6010B	295575
490-90930-12	MW16A(102915)	Total/NA	Water	6010B	295575
490-90930-13	DUP01(102915)	Total/NA	Water	6010B	295575
490-90930-14	RB01(102915)	Total/NA	Water	6010B	295048
490-91057-A-1-B MS	Matrix Spike	Total/NA	Water	6010B	295575
490-91057-A-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	295575
LCS 490-295048/2-A	Lab Control Sample	Total/NA	Water	6010B	295048
LCS 490-295575/2-A	Lab Control Sample	Total/NA	Water	6010B	295575
LCSD 490-295048/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	295048
LCSD 490-295575/20-A	Lab Control Sample Dup	Total/NA	Water	6010B	295575
MB 490-295048/1-A	Method Blank	Total/NA	Water	6010B	295048
MB 490-295575/1-A	Method Blank	Total/NA	Water	6010B	295575

General Chemistry

Analysis Batch: 297217

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-1	MW1A(102915)	Total/NA	Water	353.2	
490-90930-1 MS	MW1A(102915)	Total/NA	Water	353.2	
490-90930-1 MSD	MW1A(102915)	Total/NA	Water	353.2	
490-90930-2	MW2A(102915)	Total/NA	Water	353.2	
490-90930-4	MW5A(102915)	Total/NA	Water	353.2	
LCS 490-297217/7	Lab Control Sample	Total/NA	Water	353.2	
LCSD 490-297217/8	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 490-297217/6	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 297237

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-11	MW15A(102915)	Total/NA	Water	353.2	
490-90930-11 MS	MW15A(102915)	Total/NA	Water	353.2	
490-90930-11 MSD	MW15A(102915)	Total/NA	Water	353.2	
490-90930-12	MW16A(102915)	Total/NA	Water	353.2	
490-90930-13	DUP01(102915)	Total/NA	Water	353.2	
490-90930-14	RB01(102915)	Total/NA	Water	353.2	
LCS 490-297237/5	Lab Control Sample	Total/NA	Water	353.2	

General Chemistry (Continued)

Analysis Batch: 297237 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 490-297237/6	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 490-297237/4	Method Blank	Total/NA	Water	353.2	

Analysis Batch: 297862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90930-3	MW3A(102915)	Total/NA	Water	353.2	
490-90930-5	MW8A(102915)	Total/NA	Water	353.2	
490-90930-6	MW10A(102915)	Total/NA	Water	353.2	
490-90930-7	MW11A(102915)	Total/NA	Water	353.2	
490-90930-8	MW12A(102915)	Total/NA	Water	353.2	
490-90930-9	MW13A(102915)	Total/NA	Water	353.2	
490-90930-10	MW14A(102915)	Total/NA	Water	353.2	
490-91414-A-1 MS	Matrix Spike	Total/NA	Water	353.2	
490-91414-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	353.2	
LCS 490-297862/7	Lab Control Sample	Total/NA	Water	353.2	
LCSD 490-297862/8	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 490-297862/6	Method Blank	Total/NA	Water	353.2	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW1A(102915)

Lab Sample ID: 490-90930-1
Date Collected: 10/29/15 14:50
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	295526	11/04/15 19:27	KS	TAL NSH
Total/NA	Analysis	8260B		50	5 mL	5 mL	295892	11/05/15 14:19	JJR	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 20:10	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295251	11/03/15 13:30	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295836	11/04/15 17:34	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297217	11/10/15 13:17	MJA	TAL NSH

Client Sample ID: MW2A(102915)

Lab Sample ID: 490-90930-2
Date Collected: 10/29/15 13:55
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	295526	11/04/15 19:53	KS	TAL NSH
Total/NA	Analysis	8260B		50	5 mL	5 mL	295892	11/05/15 14:46	JJR	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 21:04	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295251	11/03/15 13:30	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295836	11/04/15 17:47	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297217	11/10/15 13:20	MJA	TAL NSH

Client Sample ID: MW3A(102915)

Lab Sample ID: 490-90930-3
Date Collected: 10/29/15 10:50
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 15:24	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 21:22	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 00:56	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:01	MJA	TAL NSH

Client Sample ID: MW5A(102915)

Lab Sample ID: 490-90930-4
Date Collected: 10/29/15 14:10
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	295526	11/04/15 20:20	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 21:40	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:01	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297217	11/10/15 13:22	MJA	TAL NSH

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW8A(102915)
Date Collected: 10/29/15 13:10
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-5
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	295526	11/04/15 15:51	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 21:58	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:05	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:02	MJA	TAL NSH

Client Sample ID: MW10A(102915)
Date Collected: 10/29/15 13:45
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-6
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 16:18	KS	TAL NSH
Total/NA	Analysis	9056A		5	10 mL		297425	11/09/15 22:16	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:09	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:03	MJA	TAL NSH

Client Sample ID: MW11A(102915)
Date Collected: 10/29/15 15:25
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-7
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 16:45	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 22:34	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295048	11/02/15 20:05	RDF	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/04/15 18:04	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:04	MJA	TAL NSH

Client Sample ID: MW12A(102915)
Date Collected: 10/29/15 15:15
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90930-8
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 17:12	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/09/15 22:52	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295048	11/02/15 20:05	RDF	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/04/15 18:08	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:04	MJA	TAL NSH

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: MW13A(102915)

Lab Sample ID: 490-90930-9
Date Collected: 10/29/15 12:10
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 17:39	KS	TAL NSH
Total/NA	Analysis	9056A		2	10 mL		297425	11/09/15 23:10	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:23	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:05	MJA	TAL NSH

Client Sample ID: MW14A(102915)

Lab Sample ID: 490-90930-10
Date Collected: 10/29/15 11:30
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 18:06	KS	TAL NSH
Total/NA	Analysis	9056A		2	10 mL		297425	11/09/15 23:29	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:27	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297862	11/12/15 11:06	MJA	TAL NSH

Client Sample ID: MW15A(102915)

Lab Sample ID: 490-90930-11
Date Collected: 10/29/15 10:30
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 18:33	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/10/15 00:23	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:32	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297237	11/10/15 14:04	MJA	TAL NSH

Client Sample ID: MW16A(102915)

Lab Sample ID: 490-90930-12
Date Collected: 10/29/15 15:00
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 19:00	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/10/15 00:41	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:36	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297237	11/10/15 14:06	MJA	TAL NSH

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Client Sample ID: DUP01(102915)

Lab Sample ID: 490-90930-13
Date Collected: 10/29/15 12:00
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	5 mL	5 mL	295526	11/04/15 20:47	KS	TAL NSH
Total/NA	Analysis	8260B		50	5 mL	5 mL	295892	11/05/15 15:13	JJR	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/10/15 00:59	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295575	11/04/15 12:00	ZLN	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/05/15 01:41	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297237	11/10/15 14:07	MJA	TAL NSH

Client Sample ID: RB01(102915)

Lab Sample ID: 490-90930-14
Date Collected: 10/29/15 15:40
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 12:42	KS	TAL NSH
Total/NA	Analysis	9056A		1	10 mL		297425	11/10/15 01:17	LKG	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	295048	11/02/15 20:05	RDF	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	295868	11/04/15 18:22	BLG	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	297237	11/10/15 14:08	MJA	TAL NSH

Client Sample ID: TB(102915)

Lab Sample ID: 490-90930-15
Date Collected: 10/29/15 00:01
Matrix: Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	5 mL	5 mL	295526	11/04/15 13:09	KS	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL NSH
9056A	Anions, Ion Chromatography	SW846	TAL NSH
6010B	Metals (ICP)	SW846	TAL NSH
353.2	Nitrogen, Nitrate-Nitrite	MCAWW	TAL NSH

Protocol References:

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East, MD

TestAmerica Job ID: 490-90930-1

Laboratory: TestAmerica Nashville

The certifications listed below are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-16

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-90930 Chain of Custody

100525

Cooler Received/Opened On 10/30/2015 @ 0945

1. Tracking # 8870 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1 Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? See Pb/Bis YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #_____

I certify that I unloaded the cooler and answered questions 7-14 (intial) DA

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) DA

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) DA

I certify that I attached a label with the unique LIMS number to each container (intial) DA

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

#10 Missing Samples

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Arcadis U.S. Inc
Address: ~~301 Corporate Center Drive, Suite 300~~ 1114 Benfield Blvd, Suite A
City/State/Zip: ~~Raleigh, NC 27607-3679~~ Millersville, MD 21108
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919-854-1282 Fax No.:
Sampler Name: (Print)
Sampler Signature:

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell / Sarah Matteson
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 285 Old Bay View Rd
City, State, Zip North East, MD
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass (Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	524.2 Full VOCs+ Oxygenates	10B10B - 1 can	353.2 Nitrate/Nitrite	9056A - DRCFM-2500 Sulfate	8260B - Full List + oxygenates						RUSH TAT (Pre-Schedule)*	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
MW1A(102915)	10/29/15	1450	7	X					X			X	X	X	X							X	X	X	X									
MW2A(102915)		1355																																
MW3A(102915)		1050																																
MW5A(102915)		1410																																
MW8(102915)		1310																																
MW10(102915)		1345 ~~1355~~																																
MW11(102915)		1525																																
MW12(102915)		1515																																
MW13(102915)		1210																																
MW14(102915)	10/29/15	1130	7	X					X			X	X	X	X							X	X	X	X									

Loc: 490
90930

Comments/Special Instructions:

TA Nashville Project #: 49001445

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other
* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Relinquished by:	Date	Time	Received by:	Date	Time
	10/29/15	1705		10/29/15	1705
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
	10/29/15	1710	TAN	10/30/15	0945

MW10 (102915) Taken at 1345

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Arcadis U.S. Inc
Address: ~~801 Corporate Center Drive, Suite 300~~ 1114 Benfield Blvd. Suite A
City/State/Zip: ~~Raleigh, NC 27607-5973~~ Millersville, MD 21108
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919-854-1282 Fax No.:
Sampler Name: (Print)
Sampler Signature:

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell / Sarah Matteson
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 285 Old Bay View Rd
City, State, Zip North East, MD
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 524.2 Full VOCs+ Oxygenates	6010 - 1 BON	353.2 Nitrate Nitrite	9056A Chloride Sulfate	8260B - Full list + Oxygenates						RUSH TAT (Pre-Schedule)*	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
MW15(102915)	10/29/15	1030	7	X					X		X	X	X	X								X	X	X	X									
MW16(102915)	↓	1500	↓	↓					↓		↓	↓	↓	↓								↓	↓	↓	↓									
DUP01(102915)	↓	1200	↓	↓					↓		↓	↓	↓	↓								↓	↓	↓	↓									
RB01(102915)	10/29/15	1540	7	X					X		X	X	X	X								X	X	X	X									
TB(102915)	—	—	2						X																X									

Loc: 490
90930

Comments/Special Instructions:

TA Nashville Project #: 49001445

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: _____ Date: _____

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/29/15	1705	[signature]	10/29	1705
[signature]	10/29/15	1710	[signature] TAN 0.8	10/30/15	0945

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-90930 Chain of Custody

Cooler Received/Opened On 11/3/2015 @ 09:30

1. Tracking # 2778 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 17610176

2. Temperature of rep. sample or temp blank when opened: 16.9 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

   If yes, how many and where:

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) AOH

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

   Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None water

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

   b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (intial) LEV

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

   b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) LEV

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) LEV

I certify that I attached a label with the unique LIMS number to each container (intial) LEV

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

BIS = Broken in shipment
Cooler Receipt Form.doc

LF-1
End of Form

Revised 11/28/12

11/13/2015

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-90930-1

Login Number: 90930
List Number: 1
Creator: Vest, Laura E

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	False	Containers recd broken. Sufficient sample in remaining containers for analysis.
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.	True	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-90794-1
Client Project/Site: 14489 - North East

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, North Carolina 27607-5073

Attn: Hillary Goodell

Authorized for release by:
11/10/2015 12:20:59 PM
Heather Wagner, Project Manager I
(615)301-5763
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Designee for

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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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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-90794-1	2590BINF(102915)	Drinking Water	10/29/15 11:20	10/30/15 09:45
490-90794-2	2590BMID(102915)	Drinking Water	10/29/15 11:25	10/30/15 09:45
490-90794-3	2590BEFF(102915)	Drinking Water	10/29/15 11:30	10/30/15 09:45

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Job ID: 490-90794-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-90794-1

Comments
No additional comments.

Receipt
The samples were received on 10/30/2015 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-295467 recovered outside control limits for the following analytes: 2-Methyl-2-Propanol and Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BINF(102915)

Date Collected: 10/29/15 11:20
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 14:51	1
Bromobenzene	ND		0.500		ug/L			11/04/15 14:51	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 14:51	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 14:51	1
Bromoform	ND		0.500		ug/L			11/04/15 14:51	1
Bromomethane	ND		0.500		ug/L			11/04/15 14:51	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 14:51	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 14:51	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 14:51	1
Chloroethane	ND		0.500		ug/L			11/04/15 14:51	1
Chloroform	ND		0.500		ug/L			11/04/15 14:51	1
Chloromethane	ND		0.500		ug/L			11/04/15 14:51	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 14:51	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 14:51	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 14:51	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 14:51	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 14:51	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 14:51	1
Dibromomethane	ND		0.500		ug/L			11/04/15 14:51	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
Dichlorodifluoromethane	ND	*	0.500		ug/L			11/04/15 14:51	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 14:51	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 14:51	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 14:51	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 14:51	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 14:51	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 14:51	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 14:51	1
Diisopropyl ether	**1.65**		0.500		ug/L			11/04/15 14:51	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 14:51	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 14:51	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 14:51	1
Methyl tert-butyl ether	**75.9**		2.50		ug/L			11/05/15 13:52	5
Naphthalene	ND		5.00		ug/L			11/04/15 14:51	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 14:51	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
Styrene	ND		0.500		ug/L			11/04/15 14:51	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 14:51	1
tert-Butyl alcohol	**225**		50.0		ug/L			11/05/15 13:52	5
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 14:51	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 14:51	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BINF(102915)

Date Collected: 10/29/15 11:20
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.500		ug/L			11/04/15 14:51	1
Toluene	ND		0.500		ug/L			11/04/15 14:51	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 14:51	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 14:51	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 14:51	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 14:51	1
Trichloroethene	ND		0.500		ug/L			11/04/15 14:51	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 14:51	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 14:51	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 14:51	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 14:51	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/04/15 14:51*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/05/15 13:52*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/04/15 14:51*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/05/15 13:52*	*5*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*11/04/15 14:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*11/05/15 13:52*	*5*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/04/15 14:51*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/05/15 13:52*	*5*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BMID(102915)

Date Collected: 10/29/15 11:25
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-2

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 13:55	1
Bromobenzene	ND		0.500		ug/L			11/04/15 13:55	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 13:55	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 13:55	1
Bromoform	ND		0.500		ug/L			11/04/15 13:55	1
Bromomethane	ND		0.500		ug/L			11/04/15 13:55	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 13:55	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 13:55	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 13:55	1
Chloroethane	ND		0.500		ug/L			11/04/15 13:55	1
Chloroform	ND		0.500		ug/L			11/04/15 13:55	1
Chloromethane	ND		0.500		ug/L			11/04/15 13:55	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:55	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:55	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:55	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:55	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 13:55	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 13:55	1
Dibromomethane	ND		0.500		ug/L			11/04/15 13:55	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
Dichlorodifluoromethane	ND	*	0.500		ug/L			11/04/15 13:55	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 13:55	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 13:55	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 13:55	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:55	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 13:55	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:55	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 13:55	1
Diisopropyl ether	ND		0.500		ug/L			11/04/15 13:55	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 13:55	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 13:55	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 13:55	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/04/15 13:55	1
Naphthalene	ND		5.00		ug/L			11/04/15 13:55	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 13:55	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
Styrene	ND		0.500		ug/L			11/04/15 13:55	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 13:55	1
tert-Butyl alcohol	**25.0**		10.0		ug/L			11/05/15 13:24	1
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:55	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:55	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BMID(102915)

Date Collected: 10/29/15 11:25
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-2

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.500		ug/L			11/04/15 13:55	1
Toluene	ND		0.500		ug/L			11/04/15 13:55	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:55	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:55	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 13:55	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 13:55	1
Trichloroethene	ND		0.500		ug/L			11/04/15 13:55	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 13:55	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 13:55	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:55	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 13:55	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 13:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*		*11/04/15 13:55*	*1*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/05/15 13:24*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/04/15 13:55*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/05/15 13:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*11/04/15 13:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*11/05/15 13:24*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/04/15 13:55*	*1*
Toluene-d8 (Surr)	*93*		*70 - 130*		*11/05/15 13:24*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BEFF(102915)

Date Collected: 10/29/15 11:30
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-3

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 13:28	1
Bromobenzene	ND		0.500		ug/L			11/04/15 13:28	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 13:28	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 13:28	1
Bromoform	ND		0.500		ug/L			11/04/15 13:28	1
Bromomethane	ND		0.500		ug/L			11/04/15 13:28	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 13:28	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 13:28	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 13:28	1
Chloroethane	ND		0.500		ug/L			11/04/15 13:28	1
Chloroform	ND		0.500		ug/L			11/04/15 13:28	1
Chloromethane	ND		0.500		ug/L			11/04/15 13:28	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:28	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:28	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:28	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:28	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 13:28	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 13:28	1
Dibromomethane	ND		0.500		ug/L			11/04/15 13:28	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
Dichlorodifluoromethane	ND	*	0.500		ug/L			11/04/15 13:28	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 13:28	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 13:28	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 13:28	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:28	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 13:28	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:28	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 13:28	1
Diisopropyl ether	ND		0.500		ug/L			11/04/15 13:28	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 13:28	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 13:28	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 13:28	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/04/15 13:28	1
Naphthalene	ND		5.00		ug/L			11/04/15 13:28	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 13:28	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
Styrene	ND		0.500		ug/L			11/04/15 13:28	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 13:28	1
tert-Butyl alcohol	ND	*	10.0		ug/L			11/04/15 13:28	1
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:28	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:28	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BEFF(102915)

Date Collected: 10/29/15 11:30
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90794-3

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.500		ug/L			11/04/15 13:28	1
Toluene	ND		0.500		ug/L			11/04/15 13:28	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:28	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:28	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 13:28	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 13:28	1
Trichloroethene	ND		0.500		ug/L			11/04/15 13:28	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 13:28	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 13:28	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:28	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 13:28	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*		*11/04/15 13:28*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*11/04/15 13:28*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*11/04/15 13:28*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/04/15 13:28*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-295467/6
Matrix: Water
Analysis Batch: 295467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 12:06	1
Bromobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 12:06	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 12:06	1
Bromoform	ND		0.500		ug/L			11/04/15 12:06	1
Bromomethane	ND		0.500		ug/L			11/04/15 12:06	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 12:06	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 12:06	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 12:06	1
Chloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Chloroform	ND		0.500		ug/L			11/04/15 12:06	1
Chloromethane	ND		0.500		ug/L			11/04/15 12:06	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 12:06	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 12:06	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 12:06	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 12:06	1
Dibromomethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Dichlorodifluoromethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
Diisopropyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 12:06	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 12:06	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Naphthalene	ND		5.00		ug/L			11/04/15 12:06	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 12:06	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Styrene	ND		0.500		ug/L			11/04/15 12:06	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 12:06	1
tert-Butyl alcohol	ND		10.0		ug/L			11/04/15 12:06	1
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 12:06	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295467/6
Matrix: Water
Analysis Batch: 295467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Tetrachloroethene	ND		0.500		ug/L			11/04/15 12:06	1
Toluene	ND		0.500		ug/L			11/04/15 12:06	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Trichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 12:06	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/04/15 12:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/04/15 12:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/04/15 12:06*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/04/15 12:06*	*1*

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.897		ug/L		118	70 - 130
Bromobenzene	5.00	5.498		ug/L		110	70 - 130
Bromochloromethane	5.00	5.997		ug/L		120	70 - 130
Bromodichloromethane	5.00	5.833		ug/L		117	70 - 130
Bromoform	5.00	5.465		ug/L		109	70 - 130
Bromomethane	5.00	5.468		ug/L		109	70 - 130
Carbon disulfide	5.00	5.833		ug/L		117	70 - 130
Carbon tetrachloride	5.00	5.428		ug/L		109	70 - 130
Chlorobenzene	5.00	5.632		ug/L		113	70 - 130
Chlorodibromomethane	5.00	5.287		ug/L		106	70 - 130
Chloroethane	5.00	5.548		ug/L		111	70 - 130
Chloroform	5.00	5.840		ug/L		117	70 - 130
Chloromethane	5.00	5.443		ug/L		109	70 - 130
2-Chlorotoluene	5.00	5.538		ug/L		111	70 - 130
4-Chlorotoluene	5.00	5.715		ug/L		114	70 - 130
cis-1,2-Dichloroethene	5.00	5.898		ug/L		118	70 - 130
cis-1,3-Dichloropropene	5.00	5.835		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.904		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	5.00	6.003		ug/L		120	70 - 130
Dibromomethane	5.00	5.947		ug/L		119	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	5.00	5.592		ug/L		112	70 - 130
1,3-Dichlorobenzene	5.00	5.424		ug/L		108	70 - 130
1,4-Dichlorobenzene	5.00	5.594		ug/L		112	70 - 130
Dichlorodifluoromethane	5.00	6.755	*	ug/L		135	70 - 130
1,1-Dichloroethane	5.00	5.900		ug/L		118	70 - 130
1,2-Dichloroethane	5.00	5.942		ug/L		119	70 - 130
1,1-Dichloroethene	5.00	5.612		ug/L		112	70 - 130
1,2-Dichloropropane	5.00	6.029		ug/L		121	70 - 130
1,3-Dichloropropane	5.00	5.754		ug/L		115	70 - 130
2,2-Dichloropropane	5.00	5.789		ug/L		116	70 - 130
1,1-Dichloropropene	5.00	5.567		ug/L		111	70 - 130
Diisopropyl ether	5.00	6.212		ug/L		124	70 - 130
Ethylbenzene	5.00	5.745		ug/L		115	70 - 130
Ethyl tert-butyl ether	5.00	6.122		ug/L		122	70 - 130
Hexachlorobutadiene	5.00	5.295		ug/L		106	70 - 130
Isopropylbenzene	5.00	5.307		ug/L		106	70 - 130
Methylene Chloride	5.00	6.237		ug/L		125	70 - 130
Methyl tert-butyl ether	5.00	6.356		ug/L		127	70 - 130
Naphthalene	5.00	5.243		ug/L		105	70 - 130
n-Butylbenzene	5.00	4.866		ug/L		97	70 - 130
N-Propylbenzene	5.00	4.958		ug/L		99	70 - 130
p-Isopropyltoluene	5.00	5.392		ug/L		108	70 - 130
sec-Butylbenzene	5.00	5.066		ug/L		101	70 - 130
Styrene	5.00	5.486		ug/L		110	70 - 130
Tert-amyl methyl ether	5.00	5.771		ug/L		115	70 - 130
tert-Butyl alcohol	50.0	66.81	*	ug/L		134	70 - 130
tert-Butylbenzene	5.00	4.985		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	5.00	5.716		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.598		ug/L		112	70 - 130
Tetrachloroethene	5.00	5.360		ug/L		107	70 - 130
Toluene	5.00	5.372		ug/L		107	70 - 130
trans-1,2-Dichloroethene	5.00	5.781		ug/L		116	70 - 130
trans-1,3-Dichloropropene	5.00	5.449		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	5.00	4.866		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	5.00	5.158		ug/L		103	70 - 130
1,1,1-Trichloroethane	5.00	5.592		ug/L		112	70 - 130
1,1,2-Trichloroethane	5.00	5.641		ug/L		113	70 - 130
Trichloroethene	5.00	5.677		ug/L		114	70 - 130
Trichlorofluoromethane	5.00	5.240		ug/L		105	70 - 130
1,2,3-Trichloropropane	5.00	5.141		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	5.00	5.276		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	5.00	5.509		ug/L		110	70 - 130
Vinyl chloride	5.00	5.474		ug/L		109	70 - 130
Xylenes, Total	10.0	11.24		ug/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-295467/4
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.928		ug/L		119	70 - 130	1	20
Bromobenzene	5.00	5.372		ug/L		107	70 - 130	2	20
Bromochloromethane	5.00	6.066		ug/L		121	70 - 130	1	20
Bromodichloromethane	5.00	5.901		ug/L		118	70 - 130	1	20
Bromoform	5.00	5.448		ug/L		109	70 - 130	0	20
Bromomethane	5.00	5.271		ug/L		105	70 - 130	4	20
Carbon disulfide	5.00	5.777		ug/L		116	70 - 130	1	20
Carbon tetrachloride	5.00	5.419		ug/L		108	70 - 130	0	20
Chlorobenzene	5.00	5.698		ug/L		114	70 - 130	1	20
Chlorodibromomethane	5.00	5.271		ug/L		105	70 - 130	0	20
Chloroethane	5.00	5.553		ug/L		111	70 - 130	0	20
Chloroform	5.00	5.920		ug/L		118	70 - 130	1	20
Chloromethane	5.00	5.609		ug/L		112	70 - 130	3	20
2-Chlorotoluene	5.00	5.587		ug/L		112	70 - 130	1	20
4-Chlorotoluene	5.00	5.235		ug/L		105	70 - 130	9	20
cis-1,2-Dichloroethene	5.00	5.761		ug/L		115	70 - 130	2	20
cis-1,3-Dichloropropene	5.00	5.645		ug/L		113	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	5.00	5.140		ug/L		103	70 - 130	5	20
1,2-Dibromoethane (EDB)	5.00	6.360		ug/L		127	70 - 130	6	20
Dibromomethane	5.00	6.026		ug/L		121	70 - 130	1	20
1,2-Dichlorobenzene	5.00	5.500		ug/L		110	70 - 130	2	20
1,3-Dichlorobenzene	5.00	5.366		ug/L		107	70 - 130	1	20
1,4-Dichlorobenzene	5.00	5.470		ug/L		109	70 - 130	2	20
Dichlorodifluoromethane	5.00	6.759	*	ug/L		135	70 - 130	0	20
1,1-Dichloroethane	5.00	6.037		ug/L		121	70 - 130	2	20
1,2-Dichloroethane	5.00	6.113		ug/L		122	70 - 130	3	20
1,1-Dichloroethene	5.00	5.593		ug/L		112	70 - 130	0	20
1,2-Dichloropropane	5.00	6.187		ug/L		124	70 - 130	3	20
1,3-Dichloropropane	5.00	5.740		ug/L		115	70 - 130	0	20
2,2-Dichloropropane	5.00	5.559		ug/L		111	70 - 130	4	20
1,1-Dichloropropene	5.00	5.687		ug/L		114	70 - 130	2	20
Diisopropyl ether	5.00	6.130		ug/L		123	70 - 130	1	20
Ethylbenzene	5.00	5.749		ug/L		115	70 - 130	0	20
Ethyl tert-butyl ether	5.00	5.996		ug/L		120	70 - 130	2	20
Hexachlorobutadiene	5.00	5.210		ug/L		104	70 - 130	2	20
Isopropylbenzene	5.00	5.343		ug/L		107	70 - 130	1	20
Methylene Chloride	5.00	6.126		ug/L		123	70 - 130	2	20
Methyl tert-butyl ether	5.00	6.237		ug/L		125	70 - 130	2	20
Naphthalene	5.00	5.082		ug/L		102	70 - 130	3	20
n-Butylbenzene	5.00	4.797		ug/L		96	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295467/4
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	5.00	4.951		ug/L		99	70 - 130	0	20
p-Isopropyltoluene	5.00	5.350		ug/L		107	70 - 130	1	20
sec-Butylbenzene	5.00	4.908		ug/L		98	70 - 130	3	20
Styrene	5.00	5.648		ug/L		113	70 - 130	3	20
Tert-amyl methyl ether	5.00	6.142		ug/L		123	70 - 130	6	20
tert-Butyl alcohol	50.0	66.35	*	ug/L		133	70 - 130	1	20
tert-Butylbenzene	5.00	4.964		ug/L		99	70 - 130	0	20
1,1,1,2-Tetrachloroethane	5.00	5.544		ug/L		111	70 - 130	3	20
1,1,2,2-Tetrachloroethane	5.00	5.394		ug/L		108	70 - 130	4	20
Tetrachloroethene	5.00	5.491		ug/L		110	70 - 130	2	20
Toluene	5.00	5.369		ug/L		107	70 - 130	0	20
trans-1,2-Dichloroethene	5.00	5.745		ug/L		115	70 - 130	1	20
trans-1,3-Dichloropropene	5.00	5.501		ug/L		110	70 - 130	1	20
1,2,3-Trichlorobenzene	5.00	4.512		ug/L		90	70 - 130	8	20
1,2,4-Trichlorobenzene	5.00	5.028		ug/L		101	70 - 130	3	20
1,1,1-Trichloroethane	5.00	5.646		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	5.00	5.815		ug/L		116	70 - 130	3	20
Trichloroethene	5.00	5.759		ug/L		115	70 - 130	1	20
Trichlorofluoromethane	5.00	5.337		ug/L		107	70 - 130	2	20
1,2,3-Trichloropropane	5.00	5.112		ug/L		102	70 - 130	1	20
1,2,4-Trimethylbenzene	5.00	5.030		ug/L		101	70 - 130	5	20
1,3,5-Trimethylbenzene	5.00	5.493		ug/L		110	70 - 130	0	20
Vinyl chloride	5.00	5.625		ug/L		112	70 - 130	3	20
Xylenes, Total	10.0	11.81		ug/L		118	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/05/15 11:00	1
Bromobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Bromochloromethane	ND		0.500		ug/L			11/05/15 11:00	1
Bromodichloromethane	ND		0.500		ug/L			11/05/15 11:00	1
Bromoform	ND		0.500		ug/L			11/05/15 11:00	1
Bromomethane	ND		0.500		ug/L			11/05/15 11:00	1
Carbon disulfide	ND		0.500		ug/L			11/05/15 11:00	1
Carbon tetrachloride	ND		0.500		ug/L			11/05/15 11:00	1
Chlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Chlorodibromomethane	ND		0.500		ug/L			11/05/15 11:00	1
Chloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Chloroform	ND		0.500		ug/L			11/05/15 11:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.500		ug/L			11/05/15 11:00	1
2-Chlorotoluene	ND		0.500		ug/L			11/05/15 11:00	1
4-Chlorotoluene	ND		0.500		ug/L			11/05/15 11:00	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/05/15 11:00	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/05/15 11:00	1
Dibromomethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Dichlorodifluoromethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
1,3-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
2,2-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
Diisopropyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Ethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Hexachlorobutadiene	ND		0.500		ug/L			11/05/15 11:00	1
Isopropylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Methylene Chloride	ND		5.00		ug/L			11/05/15 11:00	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Naphthalene	ND		5.00		ug/L			11/05/15 11:00	1
n-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
N-Propylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
p-Isopropyltoluene	ND		0.500		ug/L			11/05/15 11:00	1
sec-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Styrene	ND		0.500		ug/L			11/05/15 11:00	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/05/15 11:00	1
tert-Butyl alcohol	ND		10.0		ug/L			11/05/15 11:00	1
tert-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Tetrachloroethene	ND		0.500		ug/L			11/05/15 11:00	1
Toluene	ND		0.500		ug/L			11/05/15 11:00	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Trichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
Trichlorofluoromethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/05/15 11:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Vinyl chloride	ND		0.500		ug/L			11/05/15 11:00	1
Xylenes, Total	ND		1.00		ug/L			11/05/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/05/15 11:00*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/05/15 11:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*11/05/15 11:00*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/05/15 11:00*	*1*

Lab Sample ID: LCS 490-295867/3
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.763		ug/L		115	70 - 130
Bromobenzene	5.00	5.282		ug/L		106	70 - 130
Bromochloromethane	5.00	5.640		ug/L		113	70 - 130
Bromodichloromethane	5.00	5.783		ug/L		116	70 - 130
Bromoform	5.00	5.160		ug/L		103	70 - 130
Bromomethane	5.00	4.573		ug/L		91	70 - 130
Carbon disulfide	5.00	5.472		ug/L		109	70 - 130
Carbon tetrachloride	5.00	4.976		ug/L		100	70 - 130
Chlorobenzene	5.00	5.234		ug/L		105	70 - 130
Chlorodibromomethane	5.00	5.085		ug/L		102	70 - 130
Chloroethane	5.00	5.497		ug/L		110	70 - 130
Chloroform	5.00	5.804		ug/L		116	70 - 130
Chloromethane	5.00	4.759		ug/L		95	70 - 130
2-Chlorotoluene	5.00	4.961		ug/L		99	70 - 130
4-Chlorotoluene	5.00	5.308		ug/L		106	70 - 130
cis-1,2-Dichloroethene	5.00	5.761		ug/L		115	70 - 130
cis-1,3-Dichloropropene	5.00	5.707		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	5.368		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.708		ug/L		114	70 - 130
Dibromomethane	5.00	6.023		ug/L		120	70 - 130
1,2-Dichlorobenzene	5.00	5.492		ug/L		110	70 - 130
1,3-Dichlorobenzene	5.00	5.277		ug/L		106	70 - 130
1,4-Dichlorobenzene	5.00	5.214		ug/L		104	70 - 130
Dichlorodifluoromethane	5.00	4.526		ug/L		91	70 - 130
1,1-Dichloroethane	5.00	5.704		ug/L		114	70 - 130
1,2-Dichloroethane	5.00	5.839		ug/L		117	70 - 130
1,1-Dichloroethene	5.00	5.184		ug/L		104	70 - 130
1,2-Dichloropropane	5.00	6.156		ug/L		123	70 - 130
1,3-Dichloropropane	5.00	5.522		ug/L		110	70 - 130
2,2-Dichloropropane	5.00	5.535		ug/L		111	70 - 130
1,1-Dichloropropene	5.00	5.240		ug/L		105	70 - 130
Diisopropyl ether	5.00	6.100		ug/L		122	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295867/3
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	5.00	5.250		ug/L		105	70 - 130
Ethyl tert-butyl ether	5.00	6.279		ug/L		126	70 - 130
Hexachlorobutadiene	5.00	5.022		ug/L		100	70 - 130
Isopropylbenzene	5.00	4.949		ug/L		99	70 - 130
Methylene Chloride	5.00	5.651		ug/L		113	70 - 130
Methyl tert-butyl ether	5.00	6.336		ug/L		127	70 - 130
Naphthalene	5.00	4.919	J	ug/L		98	70 - 130
n-Butylbenzene	5.00	4.582		ug/L		92	70 - 130
N-Propylbenzene	5.00	4.660		ug/L		93	70 - 130
p-Isopropyltoluene	5.00	5.149		ug/L		103	70 - 130
sec-Butylbenzene	5.00	4.732		ug/L		95	70 - 130
Styrene	5.00	5.345		ug/L		107	70 - 130
Tert-amyl methyl ether	5.00	6.224		ug/L		124	70 - 130
tert-Butyl alcohol	50.0	58.42		ug/L		117	70 - 130
tert-Butylbenzene	5.00	4.757		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	5.00	5.522		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.246		ug/L		105	70 - 130
Tetrachloroethene	5.00	4.916		ug/L		98	70 - 130
Toluene	5.00	5.304		ug/L		106	70 - 130
trans-1,2-Dichloroethene	5.00	5.655		ug/L		113	70 - 130
trans-1,3-Dichloropropene	5.00	5.643		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	5.00	4.781		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	5.00	4.895		ug/L		98	70 - 130
1,1,1-Trichloroethane	5.00	5.399		ug/L		108	70 - 130
1,1,2-Trichloroethane	5.00	5.669		ug/L		113	70 - 130
Trichloroethene	5.00	5.482		ug/L		110	70 - 130
Trichlorofluoromethane	5.00	4.056		ug/L		81	70 - 130
1,2,3-Trichloropropane	5.00	5.053		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	5.00	5.036		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	5.00	5.308		ug/L		106	70 - 130
Vinyl chloride	5.00	4.501		ug/L		90	70 - 130
Xylenes, Total	10.0	11.20		ug/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.695		ug/L		114	70 - 130	1	20
Bromobenzene	5.00	5.140		ug/L		103	70 - 130	3	20
Bromochloromethane	5.00	5.463		ug/L		109	70 - 130	3	20
Bromodichloromethane	5.00	5.661		ug/L		113	70 - 130	2	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	5.00	5.008		ug/L		100	70 - 130	3	20
Bromomethane	5.00	4.739		ug/L		95	70 - 130	4	20
Carbon disulfide	5.00	5.484		ug/L		110	70 - 130	0	20
Carbon tetrachloride	5.00	4.764		ug/L		95	70 - 130	4	20
Chlorobenzene	5.00	5.293		ug/L		106	70 - 130	1	20
Chlorodibromomethane	5.00	5.128		ug/L		103	70 - 130	1	20
Chloroethane	5.00	5.537		ug/L		111	70 - 130	1	20
Chloroform	5.00	5.604		ug/L		112	70 - 130	4	20
Chloromethane	5.00	4.892		ug/L		98	70 - 130	3	20
2-Chlorotoluene	5.00	5.397		ug/L		108	70 - 130	8	20
4-Chlorotoluene	5.00	5.217		ug/L		104	70 - 130	2	20
cis-1,2-Dichloroethene	5.00	5.606		ug/L		112	70 - 130	3	20
cis-1,3-Dichloropropene	5.00	5.581		ug/L		112	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	5.00	5.100		ug/L		102	70 - 130	5	20
1,2-Dibromoethane (EDB)	5.00	5.534		ug/L		111	70 - 130	3	20
Dibromomethane	5.00	5.508		ug/L		110	70 - 130	9	20
1,2-Dichlorobenzene	5.00	5.124		ug/L		102	70 - 130	7	20
1,3-Dichlorobenzene	5.00	5.161		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	5.00	4.968		ug/L		99	70 - 130	5	20
Dichlorodifluoromethane	5.00	4.326		ug/L		87	70 - 130	5	20
1,1-Dichloroethane	5.00	5.859		ug/L		117	70 - 130	3	20
1,2-Dichloroethane	5.00	5.559		ug/L		111	70 - 130	5	20
1,1-Dichloroethene	5.00	5.061		ug/L		101	70 - 130	2	20
1,2-Dichloropropane	5.00	5.944		ug/L		119	70 - 130	3	20
1,3-Dichloropropane	5.00	5.524		ug/L		110	70 - 130	0	20
2,2-Dichloropropane	5.00	5.414		ug/L		108	70 - 130	2	20
1,1-Dichloropropene	5.00	4.996		ug/L		100	70 - 130	5	20
Diisopropyl ether	5.00	5.973		ug/L		119	70 - 130	2	20
Ethylbenzene	5.00	5.337		ug/L		107	70 - 130	2	20
Ethyl tert-butyl ether	5.00	6.029		ug/L		121	70 - 130	4	20
Hexachlorobutadiene	5.00	4.641		ug/L		93	70 - 130	8	20
Isopropylbenzene	5.00	5.005		ug/L		100	70 - 130	1	20
Methylene Chloride	5.00	5.600		ug/L		112	70 - 130	1	20
Methyl tert-butyl ether	5.00	6.094		ug/L		122	70 - 130	4	20
Naphthalene	5.00	4.942	J	ug/L		99	70 - 130	0	20
n-Butylbenzene	5.00	4.391		ug/L		88	70 - 130	4	20
N-Propylbenzene	5.00	4.515		ug/L		90	70 - 130	3	20
p-Isopropyltoluene	5.00	4.898		ug/L		98	70 - 130	5	20
sec-Butylbenzene	5.00	4.488		ug/L		90	70 - 130	5	20
Styrene	5.00	5.139		ug/L		103	70 - 130	4	20
Tert-amyl methyl ether	5.00	6.066		ug/L		121	70 - 130	3	20
tert-Butyl alcohol	50.0	61.19		ug/L		122	70 - 130	5	20
tert-Butylbenzene	5.00	4.632		ug/L		93	70 - 130	3	20
1,1,1,2-Tetrachloroethane	5.00	5.539		ug/L		111	70 - 130	0	20
1,1,2,2-Tetrachloroethane	5.00	5.264		ug/L		105	70 - 130	0	20
Tetrachloroethene	5.00	4.829		ug/L		97	70 - 130	2	20
Toluene	5.00	5.168		ug/L		103	70 - 130	3	20
trans-1,2-Dichloroethene	5.00	5.595		ug/L		112	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			5.00	5.495		ug/L		110	70 - 130	3	20
1,2,3-Trichlorobenzene			5.00	4.569		ug/L		91	70 - 130	5	20
1,2,4-Trichlorobenzene			5.00	4.735		ug/L		95	70 - 130	3	20
1,1,1-Trichloroethane			5.00	5.337		ug/L		107	70 - 130	1	20
1,1,2-Trichloroethane			5.00	5.708		ug/L		114	70 - 130	1	20
Trichloroethene			5.00	5.519		ug/L		110	70 - 130	1	20
Trichlorofluoromethane			5.00	3.958		ug/L		79	70 - 130	2	20
1,2,3-Trichloropropane			5.00	4.997		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene			5.00	4.800		ug/L		96	70 - 130	5	20
1,3,5-Trimethylbenzene			5.00	5.010		ug/L		100	70 - 130	6	20
Vinyl chloride			5.00	4.546		ug/L		91	70 - 130	1	20
Xylenes, Total			10.0	10.85		ug/L		108	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

GC/MS VOA

Analysis Batch: 295467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90794-1	2590BINF(102915)	Total/NA	Drinking Water	524.2	
490-90794-2	2590BMID(102915)	Total/NA	Drinking Water	524.2	
490-90794-3	2590BEFF(102915)	Total/NA	Drinking Water	524.2	
LCS 490-295467/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-295467/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-295467/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 295867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90794-1	2590BINF(102915)	Total/NA	Drinking Water	524.2	
490-90794-2	2590BMID(102915)	Total/NA	Drinking Water	524.2	
LCS 490-295867/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-295867/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-295867/5	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Client Sample ID: 2590BINF(102915)

Lab Sample ID: 490-90794-1
Date Collected: 10/29/15 11:20
Matrix: Drinking Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	295467	11/04/15 14:51	JJR	TAL NSH
Total/NA	Analysis	524.2		5	10 mL	10 mL	295867	11/05/15 13:52	JJR	TAL NSH

Client Sample ID: 2590BMID(102915)

Lab Sample ID: 490-90794-2
Date Collected: 10/29/15 11:25
Matrix: Drinking Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	295467	11/04/15 13:55	JJR	TAL NSH
Total/NA	Analysis	524.2		1	10 mL	10 mL	295867	11/05/15 13:24	JJR	TAL NSH

Client Sample ID: 2590BEFF(102915)

Lab Sample ID: 490-90794-3
Date Collected: 10/29/15 11:30
Matrix: Drinking Water
Date Received: 10/30/15 09:45

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	295467	11/04/15 13:28	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90794-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Drinking Water	1,1,1,2-Tetrachloroethane
524.2		Drinking Water	1,1,2,2-Tetrachloroethane
524.2		Drinking Water	1,1-Dichloroethane
524.2		Drinking Water	1,1-Dichloropropene
524.2		Drinking Water	1,2,3-Trichlorobenzene
524.2		Drinking Water	1,2,3-Trichloropropane
524.2		Drinking Water	1,2,4-Trimethylbenzene
524.2		Drinking Water	1,2-Dibromo-3-Chloropropane
524.2		Drinking Water	1,2-Dibromoethane (EDB)
524.2		Drinking Water	1,3,5-Trimethylbenzene
524.2		Drinking Water	1,3-Dichlorobenzene
524.2		Drinking Water	1,3-Dichloropropane
524.2		Drinking Water	2,2-Dichloropropane
524.2		Drinking Water	2-Chlorotoluene
524.2		Drinking Water	4-Chlorotoluene
524.2		Drinking Water	Bromobenzene
524.2		Drinking Water	Bromochloromethane
524.2		Drinking Water	Bromomethane
524.2		Drinking Water	Carbon disulfide
524.2		Drinking Water	Chloroethane
524.2		Drinking Water	Chloromethane
524.2		Drinking Water	cis-1,3-Dichloropropene
524.2		Drinking Water	Dibromomethane
524.2		Drinking Water	Dichlorodifluoromethane
524.2		Drinking Water	Diisopropyl ether
524.2		Drinking Water	Ethyl tert-butyl ether
524.2		Drinking Water	Hexachlorobutadiene
524.2		Drinking Water	Isopropylbenzene
524.2		Drinking Water	Methyl tert-butyl ether
524.2		Drinking Water	Naphthalene
524.2		Drinking Water	n-Butylbenzene
524.2		Drinking Water	N-Propylbenzene
524.2		Drinking Water	p-Isopropyltoluene
524.2		Drinking Water	sec-Butylbenzene
524.2		Drinking Water	Tert-amyl methyl ether
524.2		Drinking Water	tert-Butyl alcohol
524.2		Drinking Water	tert-Butylbenzene
524.2		Drinking Water	trans-1,3-Dichloropropene
524.2		Drinking Water	Trichlorofluoromethane

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Baltimore

490-90794 Chain of Custody

Cooler Received/Opened On 10/30/2015 @ 0945

1. Tracking # 2870 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: 1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) LEV

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) LEV

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) LEV

I certify that I attached a label with the unique LIMS number to each container (intial) LEV

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment
Cooler Receipt Form.doc

TestAmerica
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Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Arcadis U.S. Inc
Address: ~~801 Corporate Center Drive, Suite 300~~ 1114 Benfield Blvd Suite A
City/State/Zip: ~~Raleigh, NC 27607-5073~~ Millersville, MD ~~21032~~ 21108
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919-854-1282 Fax No.:
Sampler Name: (Print)
Sampler Signature:

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell / Sarah Matteson
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 285 Old Bay View Rd
City, State, Zip North East, MD
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 524.2 Full VOCs+ Oxygenates	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
2590BINF(102915)	10/29/15	1120	3	X					X						X		X				X				
2590BMID(102915)	↓	1125	3	X					X								X				X				
2590BEFF(102915)	10/29/15	1130	3	X					X								X				X				

Loc: 490
90794

Comments/Special Instructions:

TA Nashville Project #: 49001445

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other
* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/29/15	1705	[signature]	10/29	1705
[signature]	10/29/15	1710	[signature] 0.8	10/30/15	0930

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-90794-1

Login Number: 90794
List Number: 1
Creator: Vest, Laura E

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Tel: (615)726-0177

TestAmerica Job ID: 490-90791-1
Client Project/Site: 14489 - North East

For:
ARCADIS U.S., Inc.
801 Corporate Center Drive
Suite 300
Raleigh, North Carolina 27607-5073

Attn: Hillary Goodell

Authorized for release by:
11/10/2015 12:17:15 PM
Heather Wagner, Project Manager I
(615)301-5763
heather.wagner@testamericainc.com

Designee for

Jennifer Huckaba, Project Manager II
(615)301-5042
jennifer.huckaba@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-90791-1	261013(102915)	Drinking Water	10/29/15 11:40	10/30/15 09:45

Case Narrative

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Job ID: 490-90791-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-90791-1

Comments
No additional comments.

Receipt
The sample was received on 10/30/2015 9:45 AM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.8º C.

GC/MS VOA
Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-295467 recovered outside control limits for the following analytes: 2-Methyl-2-Propanol and Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

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

Definitions/Glossary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains no Free Liquid
DER	Duplicate error ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Client Sample ID: 261013(102915)

Date Collected: 10/29/15 11:40
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90791-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 13:01	1
Bromobenzene	ND		0.500		ug/L			11/04/15 13:01	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 13:01	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 13:01	1
Bromoform	ND		0.500		ug/L			11/04/15 13:01	1
Bromomethane	ND		0.500		ug/L			11/04/15 13:01	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 13:01	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 13:01	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 13:01	1
Chloroethane	ND		0.500		ug/L			11/04/15 13:01	1
Chloroform	ND		0.500		ug/L			11/04/15 13:01	1
Chloromethane	ND		0.500		ug/L			11/04/15 13:01	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:01	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 13:01	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:01	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:01	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 13:01	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 13:01	1
Dibromomethane	ND		0.500		ug/L			11/04/15 13:01	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
Dichlorodifluoromethane	ND	*	0.500		ug/L			11/04/15 13:01	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 13:01	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 13:01	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 13:01	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:01	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 13:01	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 13:01	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 13:01	1
Diisopropyl ether	ND		0.500		ug/L			11/04/15 13:01	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 13:01	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 13:01	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 13:01	1
Methyl tert-butyl ether	**13.6**		0.500		ug/L			11/04/15 13:01	1
Naphthalene	ND		5.00		ug/L			11/04/15 13:01	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 13:01	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
Styrene	ND		0.500		ug/L			11/04/15 13:01	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 13:01	1
tert-Butyl alcohol	**36.6**		10.0		ug/L			11/05/15 12:57	1
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:01	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 13:01	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Client Sample ID: 261013(102915)

Date Collected: 10/29/15 11:40
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90791-1

Matrix: Drinking Water

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		0.500		ug/L			11/04/15 13:01	1
Toluene	ND		0.500		ug/L			11/04/15 13:01	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 13:01	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 13:01	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 13:01	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 13:01	1
Trichloroethene	ND		0.500		ug/L			11/04/15 13:01	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 13:01	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 13:01	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 13:01	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 13:01	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 13:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/04/15 13:01*	*1*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*		*11/05/15 12:57*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*11/04/15 13:01*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/05/15 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*11/04/15 13:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*11/05/15 12:57*	*1*
Toluene-d8 (Surr)	*96*		*70 - 130*		*11/04/15 13:01*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/05/15 12:57*	*1*

Method: 524.2 - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 490-295467/6
Matrix: Water
Analysis Batch: 295467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/04/15 12:06	1
Bromobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Bromochloromethane	ND		0.500		ug/L			11/04/15 12:06	1
Bromodichloromethane	ND		0.500		ug/L			11/04/15 12:06	1
Bromoform	ND		0.500		ug/L			11/04/15 12:06	1
Bromomethane	ND		0.500		ug/L			11/04/15 12:06	1
Carbon disulfide	ND		0.500		ug/L			11/04/15 12:06	1
Carbon tetrachloride	ND		0.500		ug/L			11/04/15 12:06	1
Chlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Chlorodibromomethane	ND		0.500		ug/L			11/04/15 12:06	1
Chloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Chloroform	ND		0.500		ug/L			11/04/15 12:06	1
Chloromethane	ND		0.500		ug/L			11/04/15 12:06	1
2-Chlorotoluene	ND		0.500		ug/L			11/04/15 12:06	1
4-Chlorotoluene	ND		0.500		ug/L			11/04/15 12:06	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/04/15 12:06	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/04/15 12:06	1
Dibromomethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
Dichlorodifluoromethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
1,2-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,3-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
2,2-Dichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,1-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
Diisopropyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Ethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Hexachlorobutadiene	ND		0.500		ug/L			11/04/15 12:06	1
Isopropylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Methylene Chloride	ND		5.00		ug/L			11/04/15 12:06	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/04/15 12:06	1
Naphthalene	ND		5.00		ug/L			11/04/15 12:06	1
n-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
N-Propylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
p-Isopropyltoluene	ND		0.500		ug/L			11/04/15 12:06	1
sec-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Styrene	ND		0.500		ug/L			11/04/15 12:06	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/04/15 12:06	1
tert-Butyl alcohol	ND		10.0		ug/L			11/04/15 12:06	1
tert-Butylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 12:06	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295467/6
Matrix: Water
Analysis Batch: 295467

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Tetrachloroethene	ND		0.500		ug/L			11/04/15 12:06	1
Toluene	ND		0.500		ug/L			11/04/15 12:06	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/04/15 12:06	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/04/15 12:06	1
Trichloroethene	ND		0.500		ug/L			11/04/15 12:06	1
Trichlorofluoromethane	ND		0.500		ug/L			11/04/15 12:06	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/04/15 12:06	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/04/15 12:06	1
Vinyl chloride	ND		0.500		ug/L			11/04/15 12:06	1
Xylenes, Total	ND		1.00		ug/L			11/04/15 12:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*11/04/15 12:06*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*11/04/15 12:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*		*11/04/15 12:06*	*1*
Toluene-d8 (Surr)	*95*		*70 - 130*		*11/04/15 12:06*	*1*

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.897		ug/L		118	70 - 130
Bromobenzene	5.00	5.498		ug/L		110	70 - 130
Bromochloromethane	5.00	5.997		ug/L		120	70 - 130
Bromodichloromethane	5.00	5.833		ug/L		117	70 - 130
Bromoform	5.00	5.465		ug/L		109	70 - 130
Bromomethane	5.00	5.468		ug/L		109	70 - 130
Carbon disulfide	5.00	5.833		ug/L		117	70 - 130
Carbon tetrachloride	5.00	5.428		ug/L		109	70 - 130
Chlorobenzene	5.00	5.632		ug/L		113	70 - 130
Chlorodibromomethane	5.00	5.287		ug/L		106	70 - 130
Chloroethane	5.00	5.548		ug/L		111	70 - 130
Chloroform	5.00	5.840		ug/L		117	70 - 130
Chloromethane	5.00	5.443		ug/L		109	70 - 130
2-Chlorotoluene	5.00	5.538		ug/L		111	70 - 130
4-Chlorotoluene	5.00	5.715		ug/L		114	70 - 130
cis-1,2-Dichloroethene	5.00	5.898		ug/L		118	70 - 130
cis-1,3-Dichloropropene	5.00	5.835		ug/L		117	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	4.904		ug/L		98	70 - 130
1,2-Dibromoethane (EDB)	5.00	6.003		ug/L		120	70 - 130
Dibromomethane	5.00	5.947		ug/L		119	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	5.00	5.592		ug/L		112	70 - 130
1,3-Dichlorobenzene	5.00	5.424		ug/L		108	70 - 130
1,4-Dichlorobenzene	5.00	5.594		ug/L		112	70 - 130
Dichlorodifluoromethane	5.00	6.755	*	ug/L		135	70 - 130
1,1-Dichloroethane	5.00	5.900		ug/L		118	70 - 130
1,2-Dichloroethane	5.00	5.942		ug/L		119	70 - 130
1,1-Dichloroethene	5.00	5.612		ug/L		112	70 - 130
1,2-Dichloropropane	5.00	6.029		ug/L		121	70 - 130
1,3-Dichloropropane	5.00	5.754		ug/L		115	70 - 130
2,2-Dichloropropane	5.00	5.789		ug/L		116	70 - 130
1,1-Dichloropropene	5.00	5.567		ug/L		111	70 - 130
Diisopropyl ether	5.00	6.212		ug/L		124	70 - 130
Ethylbenzene	5.00	5.745		ug/L		115	70 - 130
Ethyl tert-butyl ether	5.00	6.122		ug/L		122	70 - 130
Hexachlorobutadiene	5.00	5.295		ug/L		106	70 - 130
Isopropylbenzene	5.00	5.307		ug/L		106	70 - 130
Methylene Chloride	5.00	6.237		ug/L		125	70 - 130
Methyl tert-butyl ether	5.00	6.356		ug/L		127	70 - 130
Naphthalene	5.00	5.243		ug/L		105	70 - 130
n-Butylbenzene	5.00	4.866		ug/L		97	70 - 130
N-Propylbenzene	5.00	4.958		ug/L		99	70 - 130
p-Isopropyltoluene	5.00	5.392		ug/L		108	70 - 130
sec-Butylbenzene	5.00	5.066		ug/L		101	70 - 130
Styrene	5.00	5.486		ug/L		110	70 - 130
Tert-amyl methyl ether	5.00	5.771		ug/L		115	70 - 130
tert-Butyl alcohol	50.0	66.81	*	ug/L		134	70 - 130
tert-Butylbenzene	5.00	4.985		ug/L		100	70 - 130
1,1,1,2-Tetrachloroethane	5.00	5.716		ug/L		114	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.598		ug/L		112	70 - 130
Tetrachloroethene	5.00	5.360		ug/L		107	70 - 130
Toluene	5.00	5.372		ug/L		107	70 - 130
trans-1,2-Dichloroethene	5.00	5.781		ug/L		116	70 - 130
trans-1,3-Dichloropropene	5.00	5.449		ug/L		109	70 - 130
1,2,3-Trichlorobenzene	5.00	4.866		ug/L		97	70 - 130
1,2,4-Trichlorobenzene	5.00	5.158		ug/L		103	70 - 130
1,1,1-Trichloroethane	5.00	5.592		ug/L		112	70 - 130
1,1,2-Trichloroethane	5.00	5.641		ug/L		113	70 - 130
Trichloroethene	5.00	5.677		ug/L		114	70 - 130
Trichlorofluoromethane	5.00	5.240		ug/L		105	70 - 130
1,2,3-Trichloropropane	5.00	5.141		ug/L		103	70 - 130
1,2,4-Trimethylbenzene	5.00	5.276		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	5.00	5.509		ug/L		110	70 - 130
Vinyl chloride	5.00	5.474		ug/L		109	70 - 130
Xylenes, Total	10.0	11.24		ug/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*
Dibromofluoromethane (Surr)	*101*		*70 - 130*

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295467/3
Matrix: Water
Analysis Batch: 295467

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

Lab Sample ID: LCSD 490-295467/4
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.928		ug/L		119	70 - 130	1	20
Bromobenzene	5.00	5.372		ug/L		107	70 - 130	2	20
Bromochloromethane	5.00	6.066		ug/L		121	70 - 130	1	20
Bromodichloromethane	5.00	5.901		ug/L		118	70 - 130	1	20
Bromoform	5.00	5.448		ug/L		109	70 - 130	0	20
Bromomethane	5.00	5.271		ug/L		105	70 - 130	4	20
Carbon disulfide	5.00	5.777		ug/L		116	70 - 130	1	20
Carbon tetrachloride	5.00	5.419		ug/L		108	70 - 130	0	20
Chlorobenzene	5.00	5.698		ug/L		114	70 - 130	1	20
Chlorodibromomethane	5.00	5.271		ug/L		105	70 - 130	0	20
Chloroethane	5.00	5.553		ug/L		111	70 - 130	0	20
Chloroform	5.00	5.920		ug/L		118	70 - 130	1	20
Chloromethane	5.00	5.609		ug/L		112	70 - 130	3	20
2-Chlorotoluene	5.00	5.587		ug/L		112	70 - 130	1	20
4-Chlorotoluene	5.00	5.235		ug/L		105	70 - 130	9	20
cis-1,2-Dichloroethene	5.00	5.761		ug/L		115	70 - 130	2	20
cis-1,3-Dichloropropene	5.00	5.645		ug/L		113	70 - 130	3	20
1,2-Dibromo-3-Chloropropane	5.00	5.140		ug/L		103	70 - 130	5	20
1,2-Dibromoethane (EDB)	5.00	6.360		ug/L		127	70 - 130	6	20
Dibromomethane	5.00	6.026		ug/L		121	70 - 130	1	20
1,2-Dichlorobenzene	5.00	5.500		ug/L		110	70 - 130	2	20
1,3-Dichlorobenzene	5.00	5.366		ug/L		107	70 - 130	1	20
1,4-Dichlorobenzene	5.00	5.470		ug/L		109	70 - 130	2	20
Dichlorodifluoromethane	5.00	6.759	*	ug/L		135	70 - 130	0	20
1,1-Dichloroethane	5.00	6.037		ug/L		121	70 - 130	2	20
1,2-Dichloroethane	5.00	6.113		ug/L		122	70 - 130	3	20
1,1-Dichloroethene	5.00	5.593		ug/L		112	70 - 130	0	20
1,2-Dichloropropane	5.00	6.187		ug/L		124	70 - 130	3	20
1,3-Dichloropropane	5.00	5.740		ug/L		115	70 - 130	0	20
2,2-Dichloropropane	5.00	5.559		ug/L		111	70 - 130	4	20
1,1-Dichloropropene	5.00	5.687		ug/L		114	70 - 130	2	20
Diisopropyl ether	5.00	6.130		ug/L		123	70 - 130	1	20
Ethylbenzene	5.00	5.749		ug/L		115	70 - 130	0	20
Ethyl tert-butyl ether	5.00	5.996		ug/L		120	70 - 130	2	20
Hexachlorobutadiene	5.00	5.210		ug/L		104	70 - 130	2	20
Isopropylbenzene	5.00	5.343		ug/L		107	70 - 130	1	20
Methylene Chloride	5.00	6.126		ug/L		123	70 - 130	2	20
Methyl tert-butyl ether	5.00	6.237		ug/L		125	70 - 130	2	20
Naphthalene	5.00	5.082		ug/L		102	70 - 130	3	20
n-Butylbenzene	5.00	4.797		ug/L		96	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295467/4
Matrix: Water
Analysis Batch: 295467

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
N-Propylbenzene	5.00	4.951		ug/L		99	70 - 130	0	20
p-Isopropyltoluene	5.00	5.350		ug/L		107	70 - 130	1	20
sec-Butylbenzene	5.00	4.908		ug/L		98	70 - 130	3	20
Styrene	5.00	5.648		ug/L		113	70 - 130	3	20
Tert-amyl methyl ether	5.00	6.142		ug/L		123	70 - 130	6	20
tert-Butyl alcohol	50.0	66.35	*	ug/L		133	70 - 130	1	20
tert-Butylbenzene	5.00	4.964		ug/L		99	70 - 130	0	20
1,1,1,2-Tetrachloroethane	5.00	5.544		ug/L		111	70 - 130	3	20
1,1,2,2-Tetrachloroethane	5.00	5.394		ug/L		108	70 - 130	4	20
Tetrachloroethene	5.00	5.491		ug/L		110	70 - 130	2	20
Toluene	5.00	5.369		ug/L		107	70 - 130	0	20
trans-1,2-Dichloroethene	5.00	5.745		ug/L		115	70 - 130	1	20
trans-1,3-Dichloropropene	5.00	5.501		ug/L		110	70 - 130	1	20
1,2,3-Trichlorobenzene	5.00	4.512		ug/L		90	70 - 130	8	20
1,2,4-Trichlorobenzene	5.00	5.028		ug/L		101	70 - 130	3	20
1,1,1-Trichloroethane	5.00	5.646		ug/L		113	70 - 130	1	20
1,1,2-Trichloroethane	5.00	5.815		ug/L		116	70 - 130	3	20
Trichloroethene	5.00	5.759		ug/L		115	70 - 130	1	20
Trichlorofluoromethane	5.00	5.337		ug/L		107	70 - 130	2	20
1,2,3-Trichloropropane	5.00	5.112		ug/L		102	70 - 130	1	20
1,2,4-Trimethylbenzene	5.00	5.030		ug/L		101	70 - 130	5	20
1,3,5-Trimethylbenzene	5.00	5.493		ug/L		110	70 - 130	0	20
Vinyl chloride	5.00	5.625		ug/L		112	70 - 130	3	20
Xylenes, Total	10.0	11.81		ug/L		118	70 - 130	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*102*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*99*		*70 - 130*

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.500		ug/L			11/05/15 11:00	1
Bromobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Bromochloromethane	ND		0.500		ug/L			11/05/15 11:00	1
Bromodichloromethane	ND		0.500		ug/L			11/05/15 11:00	1
Bromoform	ND		0.500		ug/L			11/05/15 11:00	1
Bromomethane	ND		0.500		ug/L			11/05/15 11:00	1
Carbon disulfide	ND		0.500		ug/L			11/05/15 11:00	1
Carbon tetrachloride	ND		0.500		ug/L			11/05/15 11:00	1
Chlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Chlorodibromomethane	ND		0.500		ug/L			11/05/15 11:00	1
Chloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Chloroform	ND		0.500		ug/L			11/05/15 11:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.500		ug/L			11/05/15 11:00	1
2-Chlorotoluene	ND		0.500		ug/L			11/05/15 11:00	1
4-Chlorotoluene	ND		0.500		ug/L			11/05/15 11:00	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			11/05/15 11:00	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			11/05/15 11:00	1
Dibromomethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,3-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,4-Dichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
Dichlorodifluoromethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
1,2-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
1,3-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
2,2-Dichloropropane	ND		0.500		ug/L			11/05/15 11:00	1
1,1-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
Diisopropyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Ethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Ethyl tert-butyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Hexachlorobutadiene	ND		0.500		ug/L			11/05/15 11:00	1
Isopropylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Methylene Chloride	ND		5.00		ug/L			11/05/15 11:00	1
Methyl tert-butyl ether	ND		0.500		ug/L			11/05/15 11:00	1
Naphthalene	ND		5.00		ug/L			11/05/15 11:00	1
n-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
N-Propylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
p-Isopropyltoluene	ND		0.500		ug/L			11/05/15 11:00	1
sec-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Styrene	ND		0.500		ug/L			11/05/15 11:00	1
Tert-amyl methyl ether	ND		0.500		ug/L			11/05/15 11:00	1
tert-Butyl alcohol	ND		10.0		ug/L			11/05/15 11:00	1
tert-Butylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Tetrachloroethene	ND		0.500		ug/L			11/05/15 11:00	1
Toluene	ND		0.500		ug/L			11/05/15 11:00	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			11/05/15 11:00	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,1,1-Trichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
1,1,2-Trichloroethane	ND		0.500		ug/L			11/05/15 11:00	1
Trichloroethene	ND		0.500		ug/L			11/05/15 11:00	1
Trichlorofluoromethane	ND		0.500		ug/L			11/05/15 11:00	1
1,2,3-Trichloropropane	ND		0.500		ug/L			11/05/15 11:00	1

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 490-295867/5
Matrix: Water
Analysis Batch: 295867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			11/05/15 11:00	1
Vinyl chloride	ND		0.500		ug/L			11/05/15 11:00	1
Xylenes, Total	ND		1.00		ug/L			11/05/15 11:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*11/05/15 11:00*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*11/05/15 11:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*11/05/15 11:00*	*1*
Toluene-d8 (Surr)	*94*		*70 - 130*		*11/05/15 11:00*	*1*

Lab Sample ID: LCS 490-295867/3
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	5.00	5.763		ug/L		115	70 - 130
Bromobenzene	5.00	5.282		ug/L		106	70 - 130
Bromochloromethane	5.00	5.640		ug/L		113	70 - 130
Bromodichloromethane	5.00	5.783		ug/L		116	70 - 130
Bromoform	5.00	5.160		ug/L		103	70 - 130
Bromomethane	5.00	4.573		ug/L		91	70 - 130
Carbon disulfide	5.00	5.472		ug/L		109	70 - 130
Carbon tetrachloride	5.00	4.976		ug/L		100	70 - 130
Chlorobenzene	5.00	5.234		ug/L		105	70 - 130
Chlorodibromomethane	5.00	5.085		ug/L		102	70 - 130
Chloroethane	5.00	5.497		ug/L		110	70 - 130
Chloroform	5.00	5.804		ug/L		116	70 - 130
Chloromethane	5.00	4.759		ug/L		95	70 - 130
2-Chlorotoluene	5.00	4.961		ug/L		99	70 - 130
4-Chlorotoluene	5.00	5.308		ug/L		106	70 - 130
cis-1,2-Dichloroethene	5.00	5.761		ug/L		115	70 - 130
cis-1,3-Dichloropropene	5.00	5.707		ug/L		114	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	5.368		ug/L		107	70 - 130
1,2-Dibromoethane (EDB)	5.00	5.708		ug/L		114	70 - 130
Dibromomethane	5.00	6.023		ug/L		120	70 - 130
1,2-Dichlorobenzene	5.00	5.492		ug/L		110	70 - 130
1,3-Dichlorobenzene	5.00	5.277		ug/L		106	70 - 130
1,4-Dichlorobenzene	5.00	5.214		ug/L		104	70 - 130
Dichlorodifluoromethane	5.00	4.526		ug/L		91	70 - 130
1,1-Dichloroethane	5.00	5.704		ug/L		114	70 - 130
1,2-Dichloroethane	5.00	5.839		ug/L		117	70 - 130
1,1-Dichloroethene	5.00	5.184		ug/L		104	70 - 130
1,2-Dichloropropane	5.00	6.156		ug/L		123	70 - 130
1,3-Dichloropropane	5.00	5.522		ug/L		110	70 - 130
2,2-Dichloropropane	5.00	5.535		ug/L		111	70 - 130
1,1-Dichloropropene	5.00	5.240		ug/L		105	70 - 130
Diisopropyl ether	5.00	6.100		ug/L		122	70 - 130

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 490-295867/3
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ethylbenzene	5.00	5.250		ug/L		105	70 - 130
Ethyl tert-butyl ether	5.00	6.279		ug/L		126	70 - 130
Hexachlorobutadiene	5.00	5.022		ug/L		100	70 - 130
Isopropylbenzene	5.00	4.949		ug/L		99	70 - 130
Methylene Chloride	5.00	5.651		ug/L		113	70 - 130
Methyl tert-butyl ether	5.00	6.336		ug/L		127	70 - 130
Naphthalene	5.00	4.919	J	ug/L		98	70 - 130
n-Butylbenzene	5.00	4.582		ug/L		92	70 - 130
N-Propylbenzene	5.00	4.660		ug/L		93	70 - 130
p-Isopropyltoluene	5.00	5.149		ug/L		103	70 - 130
sec-Butylbenzene	5.00	4.732		ug/L		95	70 - 130
Styrene	5.00	5.345		ug/L		107	70 - 130
Tert-amyl methyl ether	5.00	6.224		ug/L		124	70 - 130
tert-Butyl alcohol	50.0	58.42		ug/L		117	70 - 130
tert-Butylbenzene	5.00	4.757		ug/L		95	70 - 130
1,1,1,2-Tetrachloroethane	5.00	5.522		ug/L		110	70 - 130
1,1,2,2-Tetrachloroethane	5.00	5.246		ug/L		105	70 - 130
Tetrachloroethene	5.00	4.916		ug/L		98	70 - 130
Toluene	5.00	5.304		ug/L		106	70 - 130
trans-1,2-Dichloroethene	5.00	5.655		ug/L		113	70 - 130
trans-1,3-Dichloropropene	5.00	5.643		ug/L		113	70 - 130
1,2,3-Trichlorobenzene	5.00	4.781		ug/L		96	70 - 130
1,2,4-Trichlorobenzene	5.00	4.895		ug/L		98	70 - 130
1,1,1-Trichloroethane	5.00	5.399		ug/L		108	70 - 130
1,1,2-Trichloroethane	5.00	5.669		ug/L		113	70 - 130
Trichloroethene	5.00	5.482		ug/L		110	70 - 130
Trichlorofluoromethane	5.00	4.056		ug/L		81	70 - 130
1,2,3-Trichloropropane	5.00	5.053		ug/L		101	70 - 130
1,2,4-Trimethylbenzene	5.00	5.036		ug/L		101	70 - 130
1,3,5-Trimethylbenzene	5.00	5.308		ug/L		106	70 - 130
Vinyl chloride	5.00	4.501		ug/L		90	70 - 130
Xylenes, Total	10.0	11.20		ug/L		112	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*
Toluene-d8 (Surr)	*97*		*70 - 130*

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	5.00	5.695		ug/L		114	70 - 130	1	20
Bromobenzene	5.00	5.140		ug/L		103	70 - 130	3	20
Bromochloromethane	5.00	5.463		ug/L		109	70 - 130	3	20
Bromodichloromethane	5.00	5.661		ug/L		113	70 - 130	2	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	5.00	5.008		ug/L		100	70 - 130	3	20
Bromomethane	5.00	4.739		ug/L		95	70 - 130	4	20
Carbon disulfide	5.00	5.484		ug/L		110	70 - 130	0	20
Carbon tetrachloride	5.00	4.764		ug/L		95	70 - 130	4	20
Chlorobenzene	5.00	5.293		ug/L		106	70 - 130	1	20
Chlorodibromomethane	5.00	5.128		ug/L		103	70 - 130	1	20
Chloroethane	5.00	5.537		ug/L		111	70 - 130	1	20
Chloroform	5.00	5.604		ug/L		112	70 - 130	4	20
Chloromethane	5.00	4.892		ug/L		98	70 - 130	3	20
2-Chlorotoluene	5.00	5.397		ug/L		108	70 - 130	8	20
4-Chlorotoluene	5.00	5.217		ug/L		104	70 - 130	2	20
cis-1,2-Dichloroethene	5.00	5.606		ug/L		112	70 - 130	3	20
cis-1,3-Dichloropropene	5.00	5.581		ug/L		112	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	5.00	5.100		ug/L		102	70 - 130	5	20
1,2-Dibromoethane (EDB)	5.00	5.534		ug/L		111	70 - 130	3	20
Dibromomethane	5.00	5.508		ug/L		110	70 - 130	9	20
1,2-Dichlorobenzene	5.00	5.124		ug/L		102	70 - 130	7	20
1,3-Dichlorobenzene	5.00	5.161		ug/L		103	70 - 130	2	20
1,4-Dichlorobenzene	5.00	4.968		ug/L		99	70 - 130	5	20
Dichlorodifluoromethane	5.00	4.326		ug/L		87	70 - 130	5	20
1,1-Dichloroethane	5.00	5.859		ug/L		117	70 - 130	3	20
1,2-Dichloroethane	5.00	5.559		ug/L		111	70 - 130	5	20
1,1-Dichloroethene	5.00	5.061		ug/L		101	70 - 130	2	20
1,2-Dichloropropane	5.00	5.944		ug/L		119	70 - 130	3	20
1,3-Dichloropropane	5.00	5.524		ug/L		110	70 - 130	0	20
2,2-Dichloropropane	5.00	5.414		ug/L		108	70 - 130	2	20
1,1-Dichloropropene	5.00	4.996		ug/L		100	70 - 130	5	20
Diisopropyl ether	5.00	5.973		ug/L		119	70 - 130	2	20
Ethylbenzene	5.00	5.337		ug/L		107	70 - 130	2	20
Ethyl tert-butyl ether	5.00	6.029		ug/L		121	70 - 130	4	20
Hexachlorobutadiene	5.00	4.641		ug/L		93	70 - 130	8	20
Isopropylbenzene	5.00	5.005		ug/L		100	70 - 130	1	20
Methylene Chloride	5.00	5.600		ug/L		112	70 - 130	1	20
Methyl tert-butyl ether	5.00	6.094		ug/L		122	70 - 130	4	20
Naphthalene	5.00	4.942	J	ug/L		99	70 - 130	0	20
n-Butylbenzene	5.00	4.391		ug/L		88	70 - 130	4	20
N-Propylbenzene	5.00	4.515		ug/L		90	70 - 130	3	20
p-Isopropyltoluene	5.00	4.898		ug/L		98	70 - 130	5	20
sec-Butylbenzene	5.00	4.488		ug/L		90	70 - 130	5	20
Styrene	5.00	5.139		ug/L		103	70 - 130	4	20
Tert-amyl methyl ether	5.00	6.066		ug/L		121	70 - 130	3	20
tert-Butyl alcohol	50.0	61.19		ug/L		122	70 - 130	5	20
tert-Butylbenzene	5.00	4.632		ug/L		93	70 - 130	3	20
1,1,1,2-Tetrachloroethane	5.00	5.539		ug/L		111	70 - 130	0	20
1,1,2,2-Tetrachloroethane	5.00	5.264		ug/L		105	70 - 130	0	20
Tetrachloroethene	5.00	4.829		ug/L		97	70 - 130	2	20
Toluene	5.00	5.168		ug/L		103	70 - 130	3	20
trans-1,2-Dichloroethene	5.00	5.595		ug/L		112	70 - 130	1	20

Method: 524.2 - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 490-295867/4
Matrix: Water
Analysis Batch: 295867

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene			5.00	5.495		ug/L		110	70 - 130	3	20
1,2,3-Trichlorobenzene			5.00	4.569		ug/L		91	70 - 130	5	20
1,2,4-Trichlorobenzene			5.00	4.735		ug/L		95	70 - 130	3	20
1,1,1-Trichloroethane			5.00	5.337		ug/L		107	70 - 130	1	20
1,1,2-Trichloroethane			5.00	5.708		ug/L		114	70 - 130	1	20
Trichloroethene			5.00	5.519		ug/L		110	70 - 130	1	20
Trichlorofluoromethane			5.00	3.958		ug/L		79	70 - 130	2	20
1,2,3-Trichloropropane			5.00	4.997		ug/L		100	70 - 130	1	20
1,2,4-Trimethylbenzene			5.00	4.800		ug/L		96	70 - 130	5	20
1,3,5-Trimethylbenzene			5.00	5.010		ug/L		100	70 - 130	6	20
Vinyl chloride			5.00	4.546		ug/L		91	70 - 130	1	20
Xylenes, Total			10.0	10.85		ug/L		108	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*
Dibromofluoromethane (Surr)	*100*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*
Toluene-d8 (Surr)	*98*		*70 - 130*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

GC/MS VOA

Analysis Batch: 295467

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90791-1	261013(102915)	Total/NA	Drinking Water	524.2	
LCS 490-295467/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-295467/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-295467/6	Method Blank	Total/NA	Water	524.2	

Analysis Batch: 295867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-90791-1	261013(102915)	Total/NA	Drinking Water	524.2	
LCS 490-295867/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-295867/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-295867/5	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Client Sample ID: 261013(102915)

Date Collected: 10/29/15 11:40
Date Received: 10/30/15 09:45

Lab Sample ID: 490-90791-1

Matrix: Drinking Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	295467	11/04/15 13:01	JJR	TAL NSH
Total/NA	Analysis	524.2		1	10 mL	10 mL	295867	11/05/15 12:57	JJR	TAL NSH

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Method	Method Description	Protocol	Laboratory
524.2	Volatile Organic Compounds (GC/MS)	EPA-DW	TAL NSH

Protocol References:

EPA-DW = "Methods For The Determination Of Organic Compounds In Drinking Water", EPA/600/4-88/039, December 1988 And Its Supplements.

Laboratory References:

TAL NSH = TestAmerica Nashville, 2960 Foster Creighton Drive, Nashville, TN 37204, TEL (615)726-0177

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - North East

TestAmerica Job ID: 490-90791-1

Laboratory: TestAmerica Nashville

Unless otherwise noted, all analytes for this laboratory were covered under each certification below.

Authority	Program	EPA Region	Certification ID	Expiration Date
Maryland	State Program	3	316	03-31-16

The following analytes are included in this report, but certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
524.2		Drinking Water	1,1,1,2-Tetrachloroethane
524.2		Drinking Water	1,1,2,2-Tetrachloroethane
524.2		Drinking Water	1,1-Dichloroethane
524.2		Drinking Water	1,1-Dichloropropene
524.2		Drinking Water	1,2,3-Trichlorobenzene
524.2		Drinking Water	1,2,3-Trichloropropane
524.2		Drinking Water	1,2,4-Trimethylbenzene
524.2		Drinking Water	1,2-Dibromo-3-Chloropropane
524.2		Drinking Water	1,2-Dibromoethane (EDB)
524.2		Drinking Water	1,3,5-Trimethylbenzene
524.2		Drinking Water	1,3-Dichlorobenzene
524.2		Drinking Water	1,3-Dichloropropane
524.2		Drinking Water	2,2-Dichloropropane
524.2		Drinking Water	2-Chlorotoluene
524.2		Drinking Water	4-Chlorotoluene
524.2		Drinking Water	Bromobenzene
524.2		Drinking Water	Bromochloromethane
524.2		Drinking Water	Bromomethane
524.2		Drinking Water	Carbon disulfide
524.2		Drinking Water	Chloroethane
524.2		Drinking Water	Chloromethane
524.2		Drinking Water	cis-1,3-Dichloropropene
524.2		Drinking Water	Dibromomethane
524.2		Drinking Water	Dichlorodifluoromethane
524.2		Drinking Water	Diisopropyl ether
524.2		Drinking Water	Ethyl tert-butyl ether
524.2		Drinking Water	Hexachlorobutadiene
524.2		Drinking Water	Isopropylbenzene
524.2		Drinking Water	Methyl tert-butyl ether
524.2		Drinking Water	Naphthalene
524.2		Drinking Water	n-Butylbenzene
524.2		Drinking Water	N-Propylbenzene
524.2		Drinking Water	p-Isopropyltoluene
524.2		Drinking Water	sec-Butylbenzene
524.2		Drinking Water	Tert-amyl methyl ether
524.2		Drinking Water	tert-Butyl alcohol
524.2		Drinking Water	tert-Butylbenzene
524.2		Drinking Water	trans-1,3-Dichloropropene
524.2		Drinking Water	Trichlorofluoromethane

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

Baltimore

COOLER RECEIPT FORM

490-90791 Chain of Custody

Cooler Received/Opened On 10/30/2015 @ 0945

1. Tracking # 8870 (last 4 digits, FedEx)

Courier: FedEx IR Gun ID 18290455

2. Temperature of rep. sample or temp blank when opened: 0.8 *Degrees Celsius*

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO...NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (intial) MDM

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence # 1

I certify that I unloaded the cooler and answered questions 7-14 (intial) LEV

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (intial) LEV

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (intial) LEV

I certify that I attached a label with the unique LIMS number to each container (intial) LEV

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#_____

BIS = Broken in shipment

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Nashville Division
2960 Foster Creighton
Nashville, TN 37204
Phone: 615-726-0177
Toll Free: 800-765-0980
Fax: 615-726-3404

ExxonMobil

Consultant Name: Arcadis U.S. Inc
Address: ~~801 Corporate Center Drive, Suite 300~~ 1114 Benfield Blvd, Suite A
City/State/Zip: ~~Raleigh, NC 27607-5073~~ Millersville, MD 21108
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919-854-1282 Fax No.:
Sampler Name: (Print)
Sampler Signature:

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell / Sarah Matteson
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 285 Old Bay View Rd
City, State, Zip North East, MD
Regulatory District (CA)

Sample ID or Field ID	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative: Methanol	Sodium Bisulfate	HCl (Blue Label)	NaOH (Orange Label)	H_2SO_4 Plastic (Yellow Label)	H_2SO_4 Glass(Yellow Label)	HNO_3 (Red Label)	None (Black Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify)	Analyze For: 524.2 Full VOCs+ Oxygenates	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
261013 (102915)	10/29/15	1140	3	X					X								X				X				

Loc: 490
90791

Comments/Special Instructions:

TA Nashville Project #: 49001445

Laboratory Comments:
Temperature Upon Receipt:
Sample Containers Intact? Y N
VOCs Free of Headspace? Y N
QC Deliverables (please circle one)
Level 2 Level 3 Level 4 Other

Relinquished by:	Date	Time	Received by:	Date	Time
	10/29/15	1705		10/29	1705
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
	10/29/15	1710	0.8	10/30/15	0930

* It will be the responsibility of ExxonMobil or its consultant to notify the TestAmerica Project Manager by phone or fax that a rush sample will be submitted.
TA Project Manager: Date:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-90791-1

Login Number: 90791
List Number: 1
Creator: Vest, Laura E

List Source: TestAmerica Nashville

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	0.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	