Ms. Jeannette DeBartolomeo
Case Manager
Maryland Department of Environment
Oil Control Program
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Baltimore, MD 21230

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ENVIRONMENT

Subject:

Groundwater Monitoring Report – First Quarter 2016
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Cecil County, Maryland
MDE Case No. 1986-1205-CE

Date:

April 21, 2016

Contact:

Paul Goodell

Phone:

919.415.2327

Email:

Paul.Goodell@Arcadis.com

Our ref:

B0085851.0010

Dear Ms. DeBartolomeo:

On behalf of ExxonMobil Environmental Services (EMES), Arcadis U.S., Inc. (Arcadis) is including three paper copies and one electronic copy on the attached CD of the Groundwater Monitoring Report – First Quarter 2016 for the above referenced facility.

Please contact me at 919.415.2327 with any questions or concerns regarding this submittal.

Sincerely,

Arcadis U.S., Inc.

Paul Goodell

Paul Goodell, E.I.
AFS Project Manager 5

Copies:

Mr. John J. Hoban – ExxonMobil
File – EM 14489

ExxonMobil Environmental Services

GROUNDWATER MONITORING REPORT

First Quarter – 2016

Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland
MDE Case No. 1986-1205-CE

April 2016

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GROUNDWATER MONITORING REPORT

First Quarter - 2016

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Our Ref.:

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Date:

April 21, 2016

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Groundwater Monitoring Report
First Quarter– 2016

Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Cecil County, Maryland

Regulatory Information

Regulatory Agency:	Oil Control Program
Agency Contact:	Ms. Jeannette DeBartolomeo
MDE Case No:	1986-1205-CE
MDE Facility I.D.:	2615
Current Case Status:	Quarterly Groundwater Monitoring
Reporting Period:	January 1 through March 31, 2016
Last Report:	Fourth Quarter 2015 Groundwater Monitoring Report

General Site Information

ExxonMobil Contact:	Mr. John Hoban
Consultant Contact:	Mr. Paul Goodell
Facility Status:	Inactive Mobil retail gasoline service station
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 through INJ-3 (**Figure 2**)
Site Geology:	Micaceous clay and silt with sand and gravel
General Groundwater Flow Direction:	South-Southeast

Activities Completed this Period

February 10 – 12, 2016:	Groundwater Gauging and Sampling
Wells Gauged/Sampled:	All associated monitoring well and injection wells
Wells Gauged Only:	None
Liquid Phase Hydrocarbon:	None Detected
Minimum/Maximum Depth to Water:	1.78 feet (MW-5A) / 6.51 feet (MW-12)
Interpreted Groundwater Flow Direction:	South/Southeast

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EXECUTIVE SUMMARY

On behalf of ExxonMobil Environmental Services (EMES), Arcadis U.S., Inc. (Arcadis) personnel completed a quarterly potable well sampling event and groundwater monitoring and sampling event at Former ExxonMobil Facility #14489 located at 285 Old Bayview Road in North East, Cecil County, Maryland (the Site). The objective of the quarterly potable well and groundwater monitoring and sampling program is to evaluate concentrations of dissolved-phase chemicals of concern (COCs), document the effectiveness of monitored natural attenuation at the Site, and to maintain compliance with the Maryland Department of Environment (MDE) Oil Control Program requirements for the site.

On February 11, 2016, Arcadis completed a potable well sampling event of the private water supply wells located at 259 Bayview Road (Broomall) and 261 Bayview Road (Murtaugh). The maximum detections of dissolved-phase chemicals of concern (COCs) detected during the February 11, 2016 potable well sampling event are summarized in the table below:

Maximum Potable Well Concentrations (February 11, 2016)

Chemical of Concern	Water Supply Well ID	Concentration (µg/L)	MEAT Groundwater Standard (µg/L)
Benzene	All	Non-Detect	5.0
Toluene	All	Non-Detect	1,000
Ethylbenzene	All	Non-Detect	700
Xylenes (total)	All	Non-Detect	10,000
MTBE	259 Bayview Road INF	**54.2**	20
TBA	259 Bayview Road INF	185	NE
Naphthalene	All	Non-Detect	0.7
DIPE	259 Bayview Road INF	1.51	NE

Notes:

Bolded concentrations exceed the applicable MEAT LUST Groundwater Standard.

µg/L = micrograms per liter

NE = Not Established

Dissolved-phase concentrations of methyl tert-butyl ether (MTBE) were detected in concentrations exceeding the applicable Maryland Environmental Assessment Technology (MEAT) Standards for Leaking Underground Storage Tanks (LUSTs) in the influent of the point of entry treatment (POET) system of the private water supply well located at 259 Bayview Road. The concentration of MTBE in the influent of the private water supply well located at 259 Bayview Road decreased in concentration from the previous private water supply sampling event in October 2015.

No other dissolved-phase COCs were detected in concentrations exceeding the MEAT Groundwater Standards during the private water supply sampling event on February 11, 2016. No effluent samples collected from either private water supply well on February 11, 2016 contained detections of dissolved-phase COCs exceeding the applicable MEAT

Groundwater Standards. The property owners of 259 Bayview Road and 261 Bayview Road were notified of these results in letter correspondence from Arcadis dated March 3, 2016.

On February 10 – 12, 2016, Arcadis completed a quarterly groundwater monitoring and sampling event at the Site. Twelve (12) groundwater monitoring wells (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) and three (3) chemical injection wells (INJ-1, INJ-2, and INJ-3) were gauged on February 10, 2016 to determine depth to bottom (DTB), depth to water (DTW), and depth to product (DTP), if present. DTW ranged from 1.78 feet below top of well casing (btoc) in groundwater monitoring well MW-5A to 6.51 feet btoc in groundwater monitoring well MW-12. Groundwater was observed to flow towards the south/southeast which is consistent with historical observed groundwater flow direction. Free product was not detected in any groundwater monitoring wells or chemical injection wells during the February 10, 2016 groundwater gauging event.

Groundwater samples were collected from twelve (12) groundwater monitoring wells (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) on February 10 – 12, 2016.

The maximum dissolved-phase concentrations of selected COCs detected during the February 2016 groundwater sampling event are summarized below:

Maximum Groundwater Concentrations (February 10 – 12, 2016)

Chemical of Concern	Well ID	Concentration (µg/L)	MEAT Groundwater Standard (µg/L)
Benzene	MW-2A	**53.1**	5.0
Toluene	MW-1A	633 F1	1,000
Ethylbenzene	MW-2A	**888**	700
Xylenes (total)	MW-2A	1,810	10,000
MTBE	MW-2A	**27.5**	20
TBA	All	Non-Detect	NE
Naphthalene	MW-2A	**176**	0.7
DIPE	All	Non-Detect	NE

Notes:

Bolded concentrations exceed the applicable MEAT LUST Groundwater Standard.

µg/L = micrograms per liter

NE = Not Established

F1 = Matrix Spike and/or Matrix Spike Duplicate are outside of recovery limits

Dissolved-phase concentrations of benzene, ethylbenzene, MTBE, and naphthalene were detected in concentrations exceeding the applicable Maryland Environmental Assessment Technology (MEAT) Standards for Leaking Underground Storage Tanks (LUSTs).

Overall concentrations of dissolved-phase COCs at the Site have remained stable or decreased since the previous quarterly groundwater monitoring and sampling event in October 2015. Statistical trend evaluation was completed for five monitoring wells.

Overall, the COC concentration trends showed statistically significant decreasing trends except for naphthalene concentrations at monitoring well MW-11. Benzene and naphthalene had the longest projected time to attain the applicable MEAT Groundwater Standard. Monitoring wells MW-1A and MW-5A are projected to reach the screening level for benzene by the 2025. The projected year to the benzene screening level is 2028 for monitoring well MW-2A. Monitoring wells MW-1A, MW-2A and MW-5A were projected to reach the naphthalene groundwater standard by the years 2059, 2069 and 2120 respectively.

Quantitative modeling using the Quick Domenico (QD) model was used to simulate the extent of migration of dissolved-phase COCs at the site. The results suggest that migration is generally not expected to extend further downgradient than the dissolved phase plume, which is currently delineated by downgradient wells MW-10, MW-11 and further downgradient clean wells MW-13 through MW-16.

Overall groundwater chemistry provides support for ongoing metabolic degradation of hydrocarbons. The data from the February sampling event indicate less metabolic activity than previous period possibly related to a significantly lower water temperature.

Arcadis proposes to continue the quarterly potable well sampling and groundwater monitoring and sampling activities. The data collected will be utilized to determine trends in concentrations and to evaluate the effectiveness of monitored natural attenuation at the Site. The next quarterly potable well and groundwater monitoring and sampling event will be completed in May 2016. Potable well samples will be collected from the Influent, Midfluent, and Effluent streams of the POET system located at 259 Bayview Road and from the private potable well at 261 Bayview Road and analyzed for Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 524.2

All existing groundwater monitoring and chemical injection wells associated with the Site will be gauged in May 2016 to check for free product and to determine the potentiometric surface at the Site. Groundwater samples will be collected from groundwater monitoring wells 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 and analyzed for VOCs by Standard Method (SM) 8260B, Sulfate by EPA Method 9056A, dissolved and total iron by EPA Method 6010C, nitrate and nitrite by EPA Method 353.2.

A Quarterly Groundwater Monitoring Report documenting the findings of the proposed May 2016 potable sampling and groundwater monitoring and sampling event will be submitted to the MDE for review and approval within 45 days or receipt of the laboratory analytical report.

1.0 SITE HISTORY & CHARACTERIZATION

Former ExxonMobil Facility #14489 (the Site) is currently an inactive Mobil retail station (Former Mobil #16-G1R) located at the intersection of Route 274 and Old Bayview Road in North East, Cecil County, Maryland. The surrounding area land use is mixed commercial and residential. The site is bordered by residential houses to the north and east, an open lot to the south and an auto repair shop to the west. A two-story building currently remains on site. A Site Location Map and Site Map are presented as **Figures 1** and **2**, respectively.

Following the discovery of a drain line leaking gasoline at the site, seven groundwater monitoring wells (MW-1 through MW-7) were installed in April and May 1986. Liquid phase hydrocarbon (LPH) was detected and MDE Case #89-0867 was opened. Four additional groundwater monitoring wells (MW-8 through MW-11) were installed in May 1989. A Remedial Investigation (RI) Report was submitted to MDE in May 1998 (Hunter Services 1991).

In July 1990 a Remedial Action Plan (RAP) was submitted to the MDE, detailing plans for a recovery trench, well and treatment system. The site remediation system began operation in January 1991 and was operated until October 1996. Five additional groundwater monitoring wells (MW-12 through MW-16) were installed in March 1991 for site delineation as part of an Extended Site Assessment.

Additional site characterization was completed in December 1997 to delineate soil and groundwater quality adjacent to and downgradient from the potential source area. In July 2007, three underground storage tanks (USTs) were removed from the site and a Post Excavation Sampling Report was submitted to MDE in December 2007 documenting these activities.

In accordance with the site status letter issued by MDE, dated May 5, 2009, the groundwater monitoring wells and two of the off-site potable wells (259 and 261 Old Bayview Road) are currently sampled quarterly. Groundwater and potable well monitoring data collected during monitoring events since 1995 are included in groundwater monitoring reports previously submitted to MDE.

On January 15, 2016, Arcadis formally requested to rescind the Revised Corrective Action Plan (CAP) Report dated April 15, 2013. The April 15, 2013 Revised CAP Report proposed the injection of gypsum slurry with an Epsom salt solution to reduce concentrations of dissolved-phase chemicals of concerns (COC). An evaluation of groundwater analytical data by Arcadis determined that monitored natural attenuation was occurring at the site. Since monitored natural attenuation was already occurring at the site, the proposed gypsum slurry injection would be marginally beneficial. Therefore, the gypsum slurry injection remedial strategy plan was recommended to be discontinued in email correspondence to the MDE dated June 3, 2015. In place of the gypsum slurry injection, monitoring natural attenuation would be evaluated at the site over a period of two years beginning with the 3rd Quarter 2015 groundwater monitoring and sampling

period. A Revised CAP was proposed to be submitted evaluating the effectiveness of the monitored natural attenuation in the third Quarter of 2017.

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2.0 CURRENT SITE ASSESSMENT ACTIVITIES

2.1 POTABLE WELL SAMPLING

On February 11, 2016, Arcadis personnel completed a potable well sampling event of the private water supply wells located at 259 Bayview Road (Broomall) and 261 Bayview Road (Murtaugh). Samples were collected from the Influent, Midfluent, and Effluent of the point of entry treatment (POET) system at 259 Bayview Road and from the spigot as close to the potable well head as possible at 261 Bayview Road. The spigot at the potable well located at 261 Bayview Road was opened fully and water was allowed to flow for approximately 15 minutes to purge the pipes of stagnant water and ensure that representative samples were obtained.

The maximum detections of dissolved-phase chemicals of concern (COCs) detected during the February 11, 2016 potable well sampling event are summarized in the table below:

Maximum Potable Well Concentrations (February 11, 2016)

Chemical of Concern	Water Supply Well ID	Concentration (µg/L)	MEAT Groundwater Standard (µg/L)
Benzene	All	Non-Detect	5.0
Toluene	All	Non-Detect	1,000
Ethylbenzene	All	Non-Detect	700
Xylenes (total)	All	Non-Detect	10,000
MTBE	259 Bayview Road INF	**54.2**	20
TBA	259 Bayview Road INF	185	NE
Naphthalene	All	Non-Detect	0.7
DIPE	259 Bayview Road INF	1.51	NE

Notes:

Bolded concentrations exceed the applicable MEAT LUST Groundwater Standard.

µg/L = micrograms per liter

NE = Not Established

Dissolved-phase concentrations of methyl tert-butyl ether (MTBE) were detected in concentrations exceeding the applicable Maryland Environmental Assessment Technology (MEAT) Standards for Leaking Underground Storage Tanks (LUSTs) in the influent of the point of entry treatment (POET) system of the private water supply well located at 259 Bayview Road. The concentration of MTBE in the influent of the private water supply well located at 259 Bayview Road decreased in concentration from the previous private water supply sampling event in October 2015.

No other dissolved-phase COCs were detected in concentrations exceeding the MEAT Groundwater Standards during the private water supply sampling event on February 11, 2016. No effluent samples collected from either private water supply well on February 11, 2016 contained detections of dissolved-phase COCs exceeding the applicable MEAT Groundwater Standards. The property owners of 259 Bayview Road and 261 Bayview Road were notified of these results in letter correspondence from Arcadis dated March 3,

2016. Copies of the March 3, 2016 letter correspondence is presented as **Appendix A**. Current and historical potable well analytical data is included in **Table 1**.

2.2 GROUNDWATER MONITORING ACTIVITIES

On February 10, 2016, Arcadis personnel gauged twelve existing groundwater monitoring wells, 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, and three chemical injection wells, INJ-1, INJ-2, and INJ-3, using an oil/water interface probe (IP) to determine depth to water and depth to product, if present. The IP and attached tape, marked in 0.01-foot increments, were properly decontaminated before each use with Liquinox soap and a distilled water rinse. All measurements were recorded to the nearest 0.01-foot increment. The depth to water was measured from the marked survey point on the top of well casing (TOC).

Free product was not detected in any of the groundwater monitoring wells or injection wells on February 10, 2015. Free product was last detected at the site in groundwater monitoring well MW-2A on November 20, 2008 at a maximum apparent thickness of 0.01 feet.

Depth to waters on February 10, 2016 ranged from 1.78 feet below top of well casing (btoc) in groundwater monitoring well MW-5A to 6.51 feet btoc in groundwater monitoring well MW-12. Groundwater flow was observed to be towards the south/southeast and is consistent with historical observed groundwater flow. Current and historical groundwater elevations are summarized in **Table 2**. A shallow groundwater potentiometric surface map is presented as **Figure 3**.

2.3 GROUNDWATER SAMPLING ACTIVITIES

On February 10 – 12, 2016 groundwater monitoring wells, 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 were sampled.

Groundwater samples were collected using a peristaltic pump fitted with new Tygon tubing. The sampling tubing was lowered into each groundwater monitoring well to a depth corresponding to the center of the saturated screen section. The static water level at each groundwater monitoring well location was measured at 3 to 5 minute intervals during purging, and the pump rate was adjusted accordingly to maintain a stable water level during purging. New nitrile gloves were worn by field personnel at each groundwater monitoring well during sampling activities.

Natural attenuation parameters including dissolved oxygen, pH, conductivity, and oxygen reduction potential (ORP) were collected and recorded at 3 to 5 minute intervals. Groundwater samples were collected from each groundwater monitoring well after these parameters had stabilized. A summary of natural attenuation parameters is presented as **Table 3**.

All groundwater samples collected from the groundwater monitoring wells were placed in laboratory supplied containers and shipped in a cooler with wet ice to TestAmerica Inc. in Nashville, Tennessee under chain of custody documentation. Groundwater samples collected from all groundwater monitoring wells were analyzed for benzene, toluene, ethylbenzene, and xylenes (BTEX), naphthalene, and fuel oxygenates using United States Environmental Protection Agency (USEPA) Method 8260B, Sulfate by EPA Method 9056A, dissolved and total iron by EPA Method 6010C, and nitrate and nitrite by EPA Method 353.2. Quality Assurance/Quality Control (QA/QC) samples were collected included a duplicate sample (collected from MW-1A), a rinsate blank, and trip blanks. The laboratory analytical report and chain of custody documentation from the February 10 – 12, 2016 groundwater sampling event is included in **Appendix B**.

2.4 GROUNDWATER ANALYTICAL RESULTS

The February 10 – 12, 2016 groundwater analytical data indicates the following:

- Dissolved-phase concentrations of benzene were detected in concentrations exceeding the applicable MEAT Groundwater Standard (5 µg/L) in groundwater monitoring wells MW-1A (20.9 µg/L), MW-2A (53.1 µg/L), and MW-5A (5.47 µg/L).

- Dissolved-phase concentrations of ethylbenzene were detected in concentrations exceeding the applicable MEAT Groundwater Standard (700 µg/L) in groundwater monitoring well MW-2A (888 µg/L).

- Dissolved-phase concentrations of MTBE were detected in concentrations exceeding the applicable MEAT Groundwater Standard (20 µg/L) in groundwater monitoring well MW-2A (27.5 µg/L).

- Dissolved-phase concentrations of naphthalene were detected in concentrations exceeding the applicable MEAT Groundwater Standard (0.65 µg/L) in groundwater monitoring wells MW-1A (106 µg/L), MW-2A (176 µg/L), and MW-5A (111 µg/L).

Current and historical groundwater sampling data is presented in **Table 3**. A groundwater analytical map is included as **Figure 4**. The groundwater laboratory analytical report and chain-of-custody record is included in **Appendix B**.

The maximum dissolved-phase concentrations of selected COCs detected during the February 2016 groundwater sampling event are summarized below:

Maximum Groundwater Concentrations (February 10 – 12, 2016)

Chemical of Concern	Well ID	Concentration (µg/L)	MEAT Groundwater Standard (µg/L)
Benzene	MW-2A	**53.1**	5.0
Toluene	MW-1A	633 F1	1,000
Ethylbenzene	MW-2A	**888**	700
Xylenes (total)	MW-2A	1,810	10,000
MTBE	MW-2A	**27.5**	20
TBA	All	Non-Detect	NE
Naphthalene	MW-2A	**176**	0.7
DIPE	All	Non-Detect	NE

Notes:

Bolded concentrations exceed the applicable MEAT LUST Groundwater Standard.

µg/L = micrograms per liter

NE = Not Established

F1 = Matrix Spike and/or Matrix Spike Duplicate are outside of recovery limits

2.5 CONCENTRATION TRENDS

To evaluate dissolved-phase constituents of concern (COC) concentration trends through time at the site, linear regression trend analyses were performed using available historical groundwater monitoring data (**Table 1**). The analysis was conducted following USEPA (2002, 2009) guidance and the results are summarized in **Table 2** and described below.

Trends were evaluated for monitoring locations where concentrations of COCs exceeded applicable screening levels at any time during the monitoring history since 2005 and met the criteria specified below. For this assessment, the Maryland Environmental Assessment Technology (MEAT) Standards for Leaking Underground Storage Tanks (LUSTs) to impact groundwater were used as the screening levels for COCs. The relevant standards are 5 micrograms per liter (µg/L) for benzene, 1,000 µg/L for Toluene, 700 µg/L for ethylbenzene, 10,000 µg/L for total xylenes, 20 µg/L for MTBE and 0.7 µg/L for naphthalene. Trends were not evaluated at monitoring locations where any of the following criteria applied:

- Insufficient data are available (less than six data points);
- Greater than 50 percent of the results are below reporting limits;

Monitoring locations that met these criteria were analyzed using historical groundwater data collected at each well since 2005 to assess natural attenuation conditions at the site. Analytical results for other VOCs were below the screening level; therefore, trend analysis was not performed for VOCs other than BTEX, MTBE and naphthalene. Groundwater analytical and monitoring data are summarized in **Table 2**.

Linear regression analyses uses natural log normalized concentration data to evaluate trend direction and to estimate attenuation rates for the locations with significant decreasing groundwater concentration trends (USEPA 2002). The p-value of the correlation provides a measure of the

significance of the slope, or the correlation between the x and y variables. Correlations were accepted as significant at the 95 percent confidence level, indicated by a p-value of 0.05 or less. The trend direction was defined as decreasing if the slope of the trend line was negative and increasing if the slope of the trend line was positive. Where non-detect results were included in linear regression analyses, the reporting limit was substituted. The coefficient of determination, the R^2 value, is a measure of how well the linear regression fits the data set; values close to one are considered to be a good fit, while values close to zero are considered to be a poor fit. Regressions with non-significant trends and R^2 values of less than 0.1 were considered to have no apparent trend (no trend). The trends for each of the COC that met the evaluation criteria is summarized in **Attachment C: Table C-1** and described below.

Benzene:

Statistically significant decreasing trends were observed for all five monitoring wells (MW-1A, MW-2A, MW-5A, MW-11 and MW-14) that met the criteria described above for trend evaluation (**Attachment C: Table C-1**). Monitoring wells MW-1A and MW-5A are projected to reach the screening level for benzene by the 2025. The projected year to screening level is 2028 for monitoring well MW-2A, whereas monitoring well MW-11 and MW-14 has been in compliance since 2014 and 2012 respectively.

Toluene:

Monitoring well MW-1A was the only well that met the criteria for statistical evaluation as mentioned above. Statistically significant decreasing trends was observed with toluene concentration projected to reach the screening level by the 2017 (**Attachment C: Table C-1**).

Ethylbenzene:

Statistically significant decreasing trends were observed for all three monitoring wells (MW-1A, MW-2A and MW-5A) that met the criteria described above for trend evaluation (**Attachment C: Table C-1**). Of these, monitoring wells MW-1A and MW-5A had achieved compliance in the year 2015 and 2014 respectively. Monitoring well MW-2A is projected to meet the groundwater standard by the year 2020.

MTBE:

Monitoring wells MW-2A, MW-11 and MW-14 met the criteria for statistical evaluation for MTBE (**Attachment C: Table C-1**). Both wells demonstrated statistically significant decreasing trends. Monitoring wells MW-11 and MW-14 had reached compliance by the year 2013 and 2007 respectively, whereas MW-2A is projected to meet the groundwater standard by the year 2020.

Naphthalene:

Statistically significant decreasing trends were observed for three of the four monitoring wells (MW-1A, MW-2A, MW-5A and MW-11) that met the criteria described above for trend evaluation (**Attachment C: Table C-1**). Monitoring well MW-11 demonstrated decreasing naphthalene concentration trend, but the trend was not statistically significant. Monitoring wells MW-1A, MW-2A and MW-5A were projected to reach the groundwater standard by the years 2059, 2069 and 2120 respectively.

Summary:

Statistical trend evaluation was completed for five monitoring wells. Overall, the COC concentration trends showed statistically significant decreasing trends except for naphthalene concentrations at monitoring well MW-11. However, benzene and MTBE concentrations at MW-11 had reached MEAT standards since 2014 and 2013, respectively. Benzene and MTBE concentrations at MW-14 had reached MEAT standards since 2012 and 2007 respectively. Two other monitoring wells (MW-1A and MW-5A) met MEAT standards for ethylbenzene by years 2015 and 2014 respectively. **Attachment C: Table C-1** shows projected years to reach compliance for the remaining well/constituent pairs. Concentration trend analyses are presented in **Attachment C**.

2.6 FATE AND TRANSPORT

Quantitative modeling using the Quick Domenico (QD) model was used to simulate the extent of migration of dissolved-phase COCs at the site. Monitoring well MW-2A was selected to represent source area wells, because highest COC concentrations (benzene, ethylbenzene, MTBE and naphthalene) were observed at this well during the February 2016 monitoring event. The QD model is intended to represent a fairly simple flow path in a single aquifer, and the model is constructed with conservative input parameters to predict the worst case scenario.

Table 2 shows the most recent COC exceedances at MW-2A. The QD model simulated extent of the dissolved COC plume downgradient of monitoring well MW-2A. Downgradient wells MW-10 and MW-16 located 30 feet and 130 feet southwest of MW-2A respectively were included in the model, to calculate point concentrations along the plume centerline.

Input parameter values were defined from site data whenever possible. When site-specific data were not available, literature values were utilized to define model input values. Site specific hydraulic conductivity and gradient values used were 0.33 ft/day and 0.109 ft/ft respectively (Hunter, 1989). A total porosity value of 0.46% was used (Fetter, 1994), although this parameter is not sensitive to the QD model. Most conservative published literature values were used for the several other input parameters (e.g. first order decay, organic carbon partition coefficient were obtained from Chapter 250 PA Code).

The QD model predicted dissolved benzene concentrations would decrease below the MEAT groundwater standard (0.005 mg/L) after 1,000 days approximately 120 feet downgradient of MW-2A. However benzene concentration at MW-10, which is 30 feet downgradient of MW-2A has historically shown benzene concentration below detection limit, which suggests a higher degradation rate for benzene than assumed. The favorable biogeochemical parameter concentration supports rapid degradation of dissolved benzene as explained in Paragraph 2.7. Benzene concentrations at monitoring well MW-16 located 130 feet downgradient of MW-2A, were historically always below detection limit.

Similarly, the QD model predicted ethylbenzene, MTBE and naphthalene concentrations would decrease below the MEAT groundwater standard after 1,000 days approximately 4.5 feet, 30 feet

and 40 feet downgradient of MW-2A respectively. COC concentrations at MW-10 and MW-16 further downgradient have historically been below detection limit. Therefore modeled concentrations generally agreed with the observed concentrations in the downgradient wells spatially as well as temporally.

While the QD model is intended primarily as an indicator, the results suggest that migration is generally not expected to extend further downgradient than the dissolved phase plume, which is currently delineated by downgradient wells MW-10, MW-11 and further downgradient clean wells MW-13 through MW-16. The QD model is presented in **Attachment C**.

2.7 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 1st quarter 2016 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 concentrations measured in wells where

concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A and MW-5A) and MW-10, which is directly downgradient of the impacted wells were less than concentrations measured in surrounding un-impacted wells. 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.

- 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 below detection limits in wells impacted above the MDE GW Clean-up Standards (MW-1A, MW-2A, and MW-5A). Nitrate was detected at or slightly above 1 mg/L in most un-impacted wells. 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. In wells where concentrations of COCs remain above the MDE GW Clean-up Standards (MW-1A, MW-2A and MW-5A), total iron levels were detected at 5.64 mg/L (MW-1A), 10.3 mg/L (MW-2A), and 5.44 mg/L (MW-5A) and dissolved iron was detected at 4.21 mg/L (MW-1A), 0.125 mg/L (MW-2A), and 14.3 mg/L (MW-5A). The presence of dissolved iron at higher concentrations in some of 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-2A and INJ-2 to 17.5 mg/L in MW-10. In wells where concentrations of COCs remain above the MDE GW Clean-up Standards, sulfate levels were 1.24 mg/L in MW-1A, <1.00 mg/L in MW-2A, and 9.25 mg/L in MW-5A. The presence of lower sulfate concentrations in some 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.

Other Field Parameters

- pH levels were detected at concentrations ranging from 5.33 at MW-16 to 8.74 at MW-81. 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 0.167 microSiemens per centimeter (mS/cm) at MW-1A to 5.544 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 7.46 degrees Celsius (°C) at MW-14 to 10.57°C at MW-16 and were lower than historical ranges. Temperature affects the metabolic rate of bacteria and the solubility of geochemical species including oxygen.

- ORP measurements ranged from -77.6 millivolts (mV) at INJ-2 to 133.6 mV at INJ-1. The ORP is a measure of the electron activity and influences rates of biodegradation. The ORP values across the site were more positive than previously measured. ORP values in the impacted wells were generally lower than surrounding wells.

The geochemical parameters analyzed in samples collected in February 2016 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 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. Overall, data indicate that metabolic utilization of hydrocarbons in the impacted areas was slower than in previous events. The significantly lower groundwater temperature may have been a factor in slowing metabolic activity.

3.0 CONCLUSIONS

Potable well samples collected from the Influent of the POET system at 259 Bayview Road on February 11, 2016 contained detections of dissolved-phase MTBE in concentrations exceeding the applicable MEAT Standards. The concentration of MTBE in the influent of the private water supply well located at 259 Bayview Road decreased in concentration from the previous private water supply sampling event in October 2015.

No other dissolved-phase COCs were detected in concentrations exceeding the MEAT Groundwater Standards during the private water supply sampling event on February 11, 2016. No effluent samples collected from either private water supply well on February 11, 2016 contained detections of dissolved-phase COCs exceeding the applicable MEAT Groundwater Standards. The property owners of 259 Bayview Road and 261 Bayview Road were notified of these results in letter correspondence from Arcadis dated March 3, 2016.

Free product was not detected in any of the groundwater monitoring wells or chemical injections wells gauged on February 10, 2016. The sampling data collected on February 10 – 12, 2016 indicated dissolved-phase concentrations of benzene, ethylbenzene, MTBE, and naphthalene were detected in concentrations exceeding the applicable MEAT Standards. Overall, dissolved-phase concentrations of COCs have remained stable or decreased since the previous quarterly groundwater sampling event.

Statistical trend evaluation was completed for five monitoring wells. Overall, the COC concentration trends showed statistically significant decreasing trends except for naphthalene concentrations at monitoring well MW-11. Benzene and naphthalene had the longest projected time to attain the applicable MEAT Groundwater Standard. Monitoring wells MW-1A and MW-5A are projected to reach the screening level for benzene by the 2025. The projected year to the benzene screening level is 2028 for monitoring well MW-2A. Monitoring wells MW-1A, MW-2A and MW-5A were projected to reach the naphthalene groundwater standard by the years 2059, 2069 and 2120 respectively.

Quantitative modeling using the Quick Domenico (QD) model was used to simulate the extent of migration of dissolved-phase COCs at the site. The results suggest that migration is generally not expected to extend further downgradient than the dissolved phase plume, which is currently delineated by downgradient wells MW-10, MW-11 and further downgradient clean wells MW-13 through MW-16.

Overall groundwater chemistry provides support for ongoing metabolic degradation of hydrocarbons. The data from the February sampling event indicate less metabolic activity than previous period possibly related to a significantly lower water temperature.

Arcadis proposes to continue the quarterly potable well sampling and groundwater monitoring and sampling activities. The data collected will be utilized to determine trends in concentrations and to evaluate the effectiveness of monitored natural attenuation at the Site. The next quarterly potable well and groundwater monitoring and sampling event

will be completed in May 2016. Potable well samples will be collected from the Influent, Midfluent, and Effluent streams of the POET system located at 259 Bayview Road and from the private potable well at 261 Bayview Road and analyzed for VOCs by USEPA Method 524.2

All existing groundwater monitoring and chemical injection wells associated with the Site will be gauged in May 2016 to check for free product and to determine the potentiometric surface at the Site. Groundwater samples will be collected from groundwater monitoring wells 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 and analyzed for VOCs by Standard Method (SM) 8260B, Sulfate by EPA Method 9056A, dissolved and total iron by EPA Method 6010C, nitrate and nitrite by EPA Method 353.2.

A Quarterly Groundwater Monitoring Report documenting the findings of the proposed May 2016 potable sampling and groundwater monitoring and sampling event will be submitted to the MDE for review and approval within 45 days or receipt of the laboratory analytical report.

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TABLES

Table 1
Potable Water Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
215 Bayview Road	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 Road	12/19/2005	<0.5	<0.5	<0.5	<0.5	BRL	0.19	<5	NA	NA	NA	NA
	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	0.29 J	<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
	1/30/2007	<0.5	<0.5	<0.5	<0.5	BRL	0.32 J	<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	0.18 J	<5	<0.5	<0.5	<0.5	<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 Road	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 Road	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 Road	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
256 Bayview Road	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 Road	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

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Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
259 Bayview Road Cont.	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
259 Bayview Road 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
	2/11/2016	<0.5	<0.5	<0.5	<1	BRL	**54.2**	185	<0.5	<0.5	1.51	<5
259 Bayview Road 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

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Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
259 Bayview Road MID Cont.	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
	2/11/2016	<0.5	<0.5	<0.5	<1	BRL	<0.5	78.2	<0.5	<0.5	<0.5	<5
259 Bayview Road 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

Table 1
Potable Water Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
259 Bayview Road EFF Cont.	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
	2/11/2016	<0.5	<0.5	<0.6	<2	BRL	<0.6	<11	<0.5	<0.5	<0.5	<6
261 Bayview Road	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

Table 1
Potable Water Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
261 Bayview Road Cont.	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
	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
	2/11/2016	<0.5	<0.5	<0.5	<1	BRL	9.73	33.4	<0.5	<0.5	<0.5	<5
265 Bayview Road	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 Road 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	<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 Road 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

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North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
280 Bayview Road MID Cont.	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
280 Bayview Road 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	<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
281 Bayview Road 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	<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 Road 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 1
Potable Water Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
281 Bayview Road 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	<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
285 Bayview Road 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	<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 Road 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 1
Potable Water Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

Well ID	Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	TAME	ETBE	DIPE	Naphthalene
MEAT Groundwater Standard		**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
285 Bayview Road 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	<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

Notes:

1. All concentrations are reported in micrograms per liter (µg/L)
2. Bold Concentrations exceed the MEAT Groundwater Standard

Definitions:

--: No Standard exists
<: Not detected at or above the listed laboratory reporting limit
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
NM: Not Measured
NS: Not Sampled
TAME: Tertiary Amyl Methyl Ether
TBA: Tertiary Butyl Alcohol

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
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
	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
	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
	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
	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
	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
	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
	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**
	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**
	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**
	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**
	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**
	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**
	10/13/2009	97.65	4.80	ND	ND	92.85	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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]**
	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**
	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**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]**
	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]	<10 [<10]	<10 [<10]	**154 [174]**
	2/10/2016	97.65	4.27	ND	ND	93.38	**20.9 [20.7]**	633 F1 [617]	397 F1 [387]	1650 [1,620]	2,700.9 [2654.7]	<5 [<5]	<50 [<50]	<5 [<5]	<5 [<5]	<5 [<5]	**106 [110]**

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
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
	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
	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
	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
	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
	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
	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
	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**
	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**
	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**
	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**
	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**
	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**
	10/13/2009	97.10	3.93	ND	ND	93.17	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	2/10/2016	97.10	3.91	ND	ND	93.19	**53.1**	268	**888**	1,810	3,019	**27.5**	<50	<5	<5	<5	**176**

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
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
	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
	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
	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
	6/21/2007	96.99	2.45	ND	ND	94.54	**278**	111	325	991	1,705	**17900**	<1,300	NA	NA	NA	NA
	12/11/2007	96.99	2.25	ND	ND	94.74	<1	<1	<1	<1	BRL	**23.2**	<25	NA	NA	NA	NA
	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
	6/29/2008	96.99	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/14/2008	96.99	5.57	ND	ND	91.42	<1	<1	<1	<1	BRL	3.7	<25	<5	<5	<5	<5
	11/20/2008	96.99	2.21	ND	ND	94.78	<1	<1	<1	<1	BRL	0.60 J	<25	<5	<5	<5	<5
	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
	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
	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
	10/13/2009	96.99	2.10	ND	ND	94.89	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
	1/12/2010	96.99	2.45	ND	ND	94.54	<1	<1	<1	<1	BRL	**18.9**	<25	<5	<5	<5	<5
	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
	7/22/2010	96.99	2.85	ND	ND	94.14	<1	<1	<1	<1	BRL	10.2	<25	<5	<5	<5	<5
	11/23/2010	96.99	4.75	ND	ND	92.24	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	3/2/2011	96.99	2.14	ND	ND	94.85	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	5/19/2011	96.99	2.53	ND	ND	94.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	7/12/2011	96.99	5.76	ND	ND	91.23	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	10/24/2011	96.99	2.35	ND	ND	94.64	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	2/8/2012	96.99	2.71	ND	ND	94.28	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	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]
	8/14/2012	96.99	7.62	ND	ND	89.37	<1	<1	<1	<3	BRL	8.07	<10	<2	<1	<1	<5
	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
	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
	5/1/2013	96.99	4.36	ND	ND	92.63	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	8/6/2013	96.99	2.26	ND	ND	94.73	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	10/3/2013	96.99	2.72	ND	ND	94.27	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	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
	6/12/2014	96.99	2.42	ND	ND	94.57	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	9/19/2014	96.99	6.08	ND	ND	90.91	<1	<1	<1	<2	BRL	1.16	<10	<2	<1	<1	<5
	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
	3/25/2015	96.99	2.31	ND	ND	94.68	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	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
	7/29/2015	96.99	2.65	ND	ND	94.34	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	10/29/2015	96.99	2.62	ND	ND	94.37	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	2/10/2016	96.99	2.10	ND	ND	94.89	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5

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285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
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						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
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
	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
	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
	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
	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
	12/11/2007	97.26	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
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
	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
	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
	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
	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
	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
	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
	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**
	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**
	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**
	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**
	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**
	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**
	10/13/2009	95.02	2.57	ND	ND	92.45	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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]**
	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**
	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**
	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**
	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**
	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**
	6/12/2014	95.02	2.03	ND	ND	92.99	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	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**

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-5A Cont.	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**
	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**
	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**
	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**
	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**
	2/10/2016	95.02	1.78	ND	ND	93.24	**5.47**	53.4	270	999	1,327.9	<5	<50	<5	<5	<5	**111**
MW-8	12/7/2005	97.04	2.56	ND	ND	94.48	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	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
	11/7/2006	97.04	2.27	ND	ND	94.77	<1	4.1	13.9	49	67	<1	<25	NA	NA	NA	NA
	6/21/2007	97.04	2.53	ND	ND	94.51	**104**	27.7	130	644	906	**8870**	<500	NA	NA	NA	NA
	12/11/2007	97.04	2.28	ND	ND	94.76	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	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
	6/29/2008	97.04	2.92	ND	ND	94.12	<1	<1	<1	<1	BRL	13.5	<25	<5	<5	<5	<5
	8/14/2008	97.04	3.02	ND	ND	94.02	<1	<1	<1	<1	BRL	1.6	<25	<5	<5	<5	<5
	11/20/2008	97.04	2.30	ND	ND	94.74	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	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
	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
	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
	10/13/2009	97.04	3.00	ND	ND	94.04	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
	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
	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
	7/22/2010	97.04	2.65	ND	ND	94.39	<1	<1	<1	<1	BRL	0.62 J	<25	<5	<5	<5	<5
	11/23/2010	97.04	2.90	ND	ND	94.14	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	3/2/2011	97.04	2.01	ND	ND	95.03	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	5/19/2011	97.04	2.53	ND	ND	94.51	<1	<1	<1	<3	BRL	2.76	<20	<1	<1	<1	<5
	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
	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]
	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]
	5/22/2012	97.04	2.85	ND	ND	94.19	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	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
	10/4/2012	97.04	5.65	ND	ND	91.39	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	2/22/2013	97.04	2.51	ND	ND	94.53	<1	<1	<1	<3	BRL	1.01	<10	<2	<1	<1	<5
	5/1/2013	97.04	2.82	ND	ND	94.22	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	8/6/2013	97.04	2.35	ND	ND	94.69	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	10/3/2013	97.04	2.74	ND	ND	94.30	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	3/6/2014	97.04	2.46	ND	ND	94.58	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	6/12/2014	97.04	2.47	ND	ND	94.57	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	9/19/2014	97.04	4.92	ND	ND	92.12	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	11/13/2014	97.04	2.61	ND	ND	94.43	<1	<1	<1	2.02	2.02	<1	<10	<2	<1	<1	<5

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-8 Cont.	3/25/2015	97.04	2.40	ND	ND	94.64	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	6/25/2015	97.04	2.26	ND	ND	94.78	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	7/29/2015	97.04	2.73	ND	ND	94.31	<1	<1	<1	<3	BRL	1.29	<10	<2	<1	<1	<5
	10/29/2015	97.04	2.52	ND	ND	94.52	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	2/10/2016	97.04	2.15	ND	ND	94.89	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
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
	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
	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
	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
	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
	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
	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
	6/29/2008	93.35	4.40	ND	ND	88.95	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	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
	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
	2/11/2009	93.35	4.27	ND	ND	89.08	<1	<1	<1	<1	BRL	3.0	<25	<5	<5	<5	<5
	4/21/2009	93.35	2.72	ND	ND	90.63	<1	<1	<1	<1	BRL	1.4	<25	<5	<5	<5	<5
	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
	10/13/2009	93.35	3.87	ND	ND	89.48	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
	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
	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
	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
	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
	3/2/2011	93.35	3.96	ND	ND	89.39	<1	<1	<1	<3	BRL	1.37	<20	<1	<1	<1	<5
	5/19/2011	93.35	3.55	ND	ND	89.80	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	7/12/2011	93.35	4.40	ND	ND	88.95	<1	<1	<1	<3	BRL	15.4	<20	<1	<1	<1	<5
	10/24/2011	93.35	4.07	ND	ND	89.28	<1	<1	<1	<3	BRL	19.3	<10	<1	<1	<1	<5
	2/8/2012	93.35	4.10	ND	ND	89.25	<1	<1	<1	<3	BRL	2.49	<10	<1	<1	<1	<5
	5/22/2012	93.35	4.76	ND	ND	88.59	<1	<1	<1	<3	BRL	17	<10	<1	<1	<1	<5
	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
	10/4/2012	93.35	4.35	ND	ND	89.00	<1	<1	<1	<3	BRL	10.5	<10	<2	<1	<1	<5
	2/22/2013	93.35	4.35	ND	ND	89.00	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	5/1/2013	93.35	4.01	ND	ND	89.34	<1	<1	<1	<3	BRL	1.53	26.6	<2	<1	<1	<5
	8/6/2013	93.35	3.42	ND	ND	89.93	<1	<1	<1	<2	BRL	5.31	<10	<2	<1	<1	<5
	10/3/2013	93.35	4.09	ND	ND	89.26	<1	<1	<1	<2	BRL	1.96	<10	<2	<1	<1	<5
	3/6/2014	93.35	2.99	ND	ND	90.36	<1	<1	<1	<3	BRL	1.12	<10	<2	<1	<1	<5
	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
	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
	11/13/2014	93.35	4.54	ND	ND	88.81	<1	<1	<1	<2	BRL	3.79	<10	<2	<1	<1	<5

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Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-10 Cont.	3/25/2015	93.35	3.16	ND	ND	90.19	<1	<1	<1	<2	BRL	1.89	<10	<2	<1	<1	<5
	6/25/2015	93.35	3.38	ND	ND	89.97	<1	<1	<1	<3	BRL	2.94	<10	<2	<1	<1	<5
	7/29/2015	93.35	3.56	ND	ND	89.79	<1	<1	<1	<3	BRL	2.48	<10	<2	<1	<1	<5
	10/29/2015	93.35	4.01	ND	ND	89.34	<1	<1	<1	<3	BRL	10.2	<10	<2	<1	<1	<5
	2/10/2016	93.35	3.23	ND	ND	90.12	<1	<1	<1	<3	BRL	23	<10	<2	<1	<1	<5
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
	12/7/2005	96.64	8.48	ND	ND	88.16	**504**	488	**839**	2,500	4,331	**614**	<130	NA	NA	NA	NA
	5/24/2006	96.64	8.52	ND	ND	88.12	**270**	317	**729**	1,920	3,236	**422**	<130	NA	NA	NA	NA
	11/7/2006	96.64	6.10	ND	ND	90.54	**148**	117	463	921	1,649	**206**	55.8	NA	NA	NA	NA
	6/21/2007	96.64	8.16	ND	ND	88.48	**102**	64.0	341	423	930	**185**	<25	NA	NA	NA	NA
	12/11/2007	96.64	9.15	ND	ND	87.49	**275**	307	**833**	2,060	3,475	**328**	<250	NA	NA	NA	NA
	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
	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**
	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**
	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**
	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**
	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**
	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**
	10/13/2009	96.64	6.73	ND	ND	89.91	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
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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**
	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]**
	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**
	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**
	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**
	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
	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**
	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**
	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**

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-11 Cont.	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**
	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**
	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**
	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**
	2/10/2016	96.64	4.04	ND	ND	92.60	<1	<1	<1	<2	BRL	<1	<10	<1	<1	<1	<1
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
	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
	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
	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
	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
	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
	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
	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**
	8/14/2008	100.00	13.85	ND	ND	86.15	<1	<1	<1	<1	BRL	**126**	<25	<5	<5	21.6	<5
	11/20/2008	100.00	14.53	ND	ND	85.47	<1	<1	<1	<1	BRL	**56.0**	<25	<5	<5	<5	<5
	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**
	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
	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
	10/13/2009	100.00	10.90	ND	ND	89.10	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
	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
	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**
	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
	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
	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]
	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]**
	7/12/2011	100.00	14.09	ND	ND	85.91	<1	<1	<1	<3	BRL	**37**	<20	<1	<1	6.78	<5
	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
	2/8/2012	100.00	8.33	ND	ND	91.67	<1	<1	<1	<3	BRL	**43.9**	<10	<1	<1	<1	<5
	5/22/2012	100.00	14.55	ND	ND	85.45	<1	<1	<1	<3	BRL	**27.1**	<10	<1	<1	4.11	<5
	8/14/2012	100.00	17.95	ND	ND	82.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/4/2012	100.00	Dry	ND	ND	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/22/2013	100.00	8.42	ND	ND	91.58	<1	<1	<1	<3	BRL	9.48	<10	<2	<1	1.41	<5
	5/1/2013	100.00	9.13	ND	ND	90.87	<1	<1	<1	<3	BRL	**27.4**	<10	<2	<1	5.24	<5
	8/6/2013	100.00	7.25	ND	ND	92.75	<1	<1	<1	<2	BRL	16.7	<10	<2	<1	3.06	<5
	10/3/2013	100.00	9.83	ND	ND	90.17	<1	<1	<1	<2	BRL	13.7	<10	<2	<1	<1	<5
	3/6/2014	100.00	6.91	ND	ND	93.09	<1	<1	<1	<3	BRL	15.2	<10	<2	<1	2.46	<5
	6/12/2014	100.00	8.38	ND	ND	91.62	<1	<1	<1	<2	BRL	9.81	<10	<2	<1	1.86	<5
	9/19/2014	100.00	16.21	ND	ND	83.79	<1	<1	<1	<2	BRL	7.25	<10	<2	<1	1.16	<5
	11/13/2014	100.00	13.29	ND	ND	86.71	<1	<1	<1	<2	BRL	3.28	<10	<2	<1	<1	<5

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-12 Cont	3/25/2015	100.00	6.73	ND	ND	93.27	<1	<1	<1	<2	BRL	4.55	<10	<2	<1	<1	<5
	6/25/2015	100.00	7.31	ND	ND	92.69	<1	<1	<1	<3	BRL	5.87	<10	<2	<1	1.38	<5
	7/29/2015	100.00	8.58	ND	ND	91.42	<1	<1	<1	<3	BRL	5.73	<10	<2	<1	1.35	<5
	10/29/2015	100.00	13.98	ND	ND	86.02	<1	<1	<1	<3	BRL	1.77	<10	<2	<1	<1	<5
	2/10/2016	100.00	6.51	ND	ND	93.49	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
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
	12/7/2005	94.38	10.93	ND	ND	83.45	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	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
	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
	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
	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
	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
	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
	8/14/2008	94.38	12.62	ND	ND	81.76	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	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
	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**
	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**
	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**
	10/13/2009	94.38	10.00	ND	ND	84.38	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	10/27/2009	94.38	NM	NM	NM	NM	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
	4/21/2010	94.38	6.55	ND	ND	87.83	<1	<1	<1	<1	BRL	1.5	<25	<5	<5	<5	<5
	7/22/2010	94.38	14.77	ND	ND	79.61	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	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
	3/2/2011	94.38	4.58	ND	ND	89.80	<1	<1	5.25	11.8	17	<1	<20	<1	<1	<1	<5
	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**
	7/12/2011	94.38	12.63	ND	ND	81.75	<1	<1	14	43	57	5.76	<20	<1	<1	<1	**17.1**
	10/24/2011	94.38	6.83	ND	ND	87.55	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	2/8/2012	94.38	5.90	ND	ND	88.48	<1	<1	1.78	3.88	6	<1	<10	<1	<1	<1	<5
	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
	8/14/2012	94.38	17.93	ND	ND	76.45	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/4/2012	94.38	17.96	ND	ND	76.42	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	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
	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
	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**
	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
	3/6/2014	94.38	3.95	ND	ND	90.43	<1	<1	1.97	<3	1.97	<1	<10	<2	<1	<1	<5
	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
	9/19/2014	94.38	14.89	ND	ND	79.49	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	11/13/2014	94.38	11.54	ND	ND	82.84	<1	1.35	<1	<2	1.35	<1	<10	<2	<1	<1	<5

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-13 Cont.	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
	6/25/2015	94.38	3.94	ND	ND	90.44	<1	<1	<1	<3	BRL	8.19	28.6	<2	<1	<1	<5
	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**
	10/29/2015	94.38	8.89	ND	ND	85.49	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	2/10/2016	94.38	2.29	ND	ND	92.09	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
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
	12/7/2005	93.10	11.58	ND	ND	81.52	<1	5.3	<1	<1	5.3	<1	<25	NA	NA	NA	NA
	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
	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
	6/21/2007	93.10	12.69	ND	ND	80.41	**580**	75.8	87.3	225	968	**142**	141	NA	NA	NA	NA
	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
	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
	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**
	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**
	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
	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**
	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
	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**
	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**
	10/27/2009	93.10	NM	NM	NM	NM	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
	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**
	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**
	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**
	3/2/2011	93.10	7.59	ND	ND	85.51	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	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**
	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]**
	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]
	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
	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**
	8/14/2012	93.10	18.05	ND	ND	75.05	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/4/2012	93.10	Dry	ND	ND	Dry	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	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
	5/1/2013	93.10	10.82	ND	ND	82.28	<1	<1	<1	<3	BRL	5.7	<10	<2	<1	<1	<5
	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
	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**
	3/6/2014	93.10	7.26	ND	ND	85.84	<1	<1	<1	<3	BRL	1.15	<10	<2	<1	<1	<5
	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**
	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**
	11/13/2014	93.10	12.59	ND	ND	80.51	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-14 Cont.	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
	6/25/2015	93.10	7.16	ND	ND	85.94	<1	<1	<1	<3	BRL	1.11	<10	<2	<1	<1	<5
	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
	10/29/2015	93.10	9.30	ND	ND	83.80	<1	<1	<1	<3	BRL	1.43	<10	<2	<1	<1	<5
	2/10/2016	93.10	4.78	ND	ND	88.32	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
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
	12/7/2005	92.40	6.02	ND	ND	86.38	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	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
	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
	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
	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
	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
	6/29/2008	92.40	7.79	ND	ND	84.61	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	8/14/2008	92.40	9.00	ND	ND	83.40	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	11/20/2008	92.40	4.84	ND	ND	87.56	1.2	<1	<1	<1	1.2	<1	<25	<5	<5	<5	<5
	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**
	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
	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
	10/13/2009	92.40	7.90	ND	ND	84.50	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	10/27/2009	92.40	NM	NM	NM	NM	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
	4/21/2010	92.40	5.88	ND	ND	86.52	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	7/22/2010	92.40	10.31	ND	ND	82.09	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	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
	3/2/2011	92.40	3.94	ND	ND	88.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	5/19/2011	92.40	6.56	ND	ND	85.84	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	7/12/2011	92.40	8.88	ND	ND	83.52	1.4	<1	<1	<3	1.4	<1	<20	<1	<1	<1	<5
	10/24/2011	92.40	6.76	ND	ND	85.64	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	2/8/2012	92.40	7.45	ND	ND	84.95	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	5/22/2012	92.40	9.45	ND	ND	82.95	1.89	<1	<1	<3	1.89	<1	<10	<1	<1	<1	<5
	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
	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
	2/22/2013	92.40	6.10	ND	ND	86.30	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	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
	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**
	10/3/2013	92.40	7.41	ND	ND	84.99	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	3/6/2014	92.40	4.46	ND	ND	87.94	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	6/12/2014	92.40	6.78	ND	ND	85.62	1.78	<1	<1	<2	1.78	<1	<10	<2	<1	<1	<5
	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**
	11/13/2014	92.40	8.89	ND	ND	83.51	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-15 Cont.	3/25/2015	92.40	4.86	ND	ND	87.54	<1	<1	<1	2.09	2.09	<1	<10	<2	<1	<1	<5
	6/25/2015	92.40	3.78	ND	ND	88.62	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	7/29/2015	92.40	6.74	ND	ND	85.66	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	10/29/2015	92.40	9.24	ND	ND	83.16	1.96	<1	<1	<3	1.96	<1	<10	<2	<1	<1	<5
	2/10/2016	92.40	3.94	ND	ND	88.46	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
MW-16	6/1/2005	90.30	7.42	ND	ND	82.88	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	12/7/2005	90.30	6.12	ND	ND	84.18	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	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
	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
	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
	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
	3/24/2008	90.30	5.13	ND	ND	85.17	<1	<1	<1	<1	BRL	<1	<25	NA	NA	NA	NA
	6/29/2008	90.30	7.19	ND	ND	83.11	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	8/14/2008	90.30	NM	NM	NM	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/20/2008	90.30	9.43	ND	ND	80.87	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	2/11/2009	90.30	6.05	ND	ND	84.25	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	4/21/2009	90.30	4.15	ND	ND	86.15	<1	<1	<1	<1	BRL	0.54 J	<25	<5	<5	<5	<5
	7/31/2009	90.30	6.50	ND	ND	83.80	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	10/13/2009	90.30	5.15	ND	ND	85.15	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
	1/12/2010	90.30	5.16	ND	ND	85.14	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	4/21/2010	90.30	4.96	ND	ND	85.34	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	7/22/2010	90.30	8.49	ND	ND	81.81	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	11/23/2010	90.30	7.49	ND	ND	82.81	<1	<1	<1	<1	BRL	<1	<25	<5	<5	<5	<5
	3/2/2011	90.30	4.89	ND	ND	85.41	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	5/19/2011	90.30	5.36	ND	ND	84.94	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	7/12/2011	90.30	8.84	ND	ND	81.46	<1	<1	<1	<3	BRL	<1	<20	<1	<1	<1	<5
	10/24/2011	90.30	5.48	ND	ND	84.82	<1	<1	1.3	4.55	BRL	<1	<10	<1	<1	<1	<5
	2/8/2012	90.30	5.41	ND	ND	84.89	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	5/22/2012	90.30	8.83	ND	ND	81.47	<1	<1	<1	<3	BRL	<1	<10	<1	<1	<1	<5
	8/14/2012	90.30	11.87	ND	ND	78.43	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	10/4/2012	90.30	10.99	ND	ND	79.31	<1	<1	1.09	<3	1.09	<1	<10	<2	<1	<1	<5
	2/22/2013	90.30	5.70	ND	ND	84.60	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	5/1/2013	90.30	5.94	ND	ND	84.36	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	8/6/2013	90.30	4.56	ND	ND	85.74	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	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
	3/6/2014	90.30	4.83	ND	ND	85.47	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	6/12/2014	90.30	5.65	ND	ND	84.65	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	9/19/2014	90.30	10.90	ND	ND	79.40	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	11/13/2014	90.30	8.55	ND	ND	81.75	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5

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North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
						MEAT Groundwater Standard	**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
MW-16 Cont.	3/25/2015	90.30	5.22	ND	ND	85.08	<1	<1	<1	<2	BRL	<1	<10	<2	<1	<1	<5
	6/25/2015	90.30	5.07	ND	ND	85.23	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	7/29/2015	90.30	6.17	ND	ND	84.13	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	10/29/2015	90.30	8.36	ND	ND	81.94	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
	2/10/2016	90.30	4.90	ND	ND	85.40	<1	<1	<1	<3	BRL	<1	<10	<2	<1	<1	<5
INJ-1	2/22/2013	100.49	6.52	ND	ND	93.97	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/1/2013	100.49	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/6/2013	100.49	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/2013	100.49	7.01	ND	ND	93.48	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/6/2014	100.49	3.63	ND	ND	96.86	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/2014	100.49	5.41	ND	ND	95.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/18/2014	100.49	10.80	ND	ND	89.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/2014	100.49	9.47	ND	ND	91.02	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/25/2015	100.49	4.19	ND	ND	96.30	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2015	100.49	4.65	ND	ND	95.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/29/2015	100.49	5.91	ND	ND	94.58	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/2015	100.49	8.97	ND	ND	91.52	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/10/2016	100.49	3.69	ND	ND	96.80	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
INJ-2	2/22/2013	101.50	4.60	ND	ND	96.90	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/1/2013	101.50	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/6/2013	101.50	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/2013	101.50	3.38	ND	ND	98.12	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/6/2014	101.50	3.04	ND	ND	98.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/2014	101.50	3.01	ND	ND	98.49	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/18/2014	101.50	4.44	ND	ND	97.06	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/2014	101.50	3.52	ND	ND	97.98	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/25/2015	101.50	2.95	ND	ND	98.55	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/25/2015	101.50	2.81	ND	ND	98.69	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/29/2015	101.50	3.15	ND	ND	98.35	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/2015	101.50	3.23	ND	ND	98.27	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/10/2016	101.50	2.80	ND	ND	98.70	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
INJ-3	2/22/2013	100.49	4.10	ND	ND	96.39	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/1/2013	100.49	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	8/6/2013	100.49	NM	ND	ND	NM	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/3/2013	100.49	4.41	ND	ND	96.08	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/6/2014	100.49	3.57	ND	ND	96.92	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/12/2014	100.49	3.74	ND	ND	96.75	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/18/2014	100.49	5.81	ND	ND	94.68	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/13/2014	100.49	4.77	ND	ND	95.72	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/25/2015	100.49	3.70	ND	ND	96.79	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Table 2
Groundwater Monitoring and Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Gauging Data					Analytical Data										
Well ID	Date	Top of Casing Elevation (ft AMSL)	Depth to Water (ft BTOC)	Depth to PSH (ft BTOC)	PSH Thickness (ft)	Corrected Groundwater Elevation (ft AMSL)	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	MTBE	TBA	DIPE	ETBE	TAME	Naphthalene
MEAT Groundwater Standard							**5.0**	**1,000**	**700**	**10,000**	**--**	**20**	**--**	**--**	**--**	**--**	**0.7**
INJ-3 Cont.	6/25/2015	100.49	3.65	ND	ND	96.84	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	7/29/2015	100.49	4.16	ND	ND	96.33	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	10/29/2015	100.49	3.45	ND	ND	97.04	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	2/10/2016	100.49	3.03	ND	ND	97.46	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS

Notes:
1. All concentrations are reported in micrograms per liter (µg/L)
2. Bold Concentrations exceed the MEAT Groundwater Standard
3. Values listed inside brackets are duplicate sample results
4. Groundwater elevation is calculated in the presence of PSH by the following formula: (Top of Casing - Depth to Water) + (Thickness of PSH * Specific Gravity) where specific gravity of PSH is assumed to be 0.73

Definitions:
--: No Standard exists
<: Not detected at or above the listed laboratory reporting limit
AMSL: Above Mean Sea Level
BRL : Below laboratory reporting limits
BTEX: Benzene, toluene, ethylbenzene, and total xylenes
BTOC: Below Top of Casing
DIPE: Di-Isopropyl Ether
ETBE: Ethyl Tertiary Butyl Ether
F1: Matrix spike and/or Matrix Spike Duplicate are outside of recovery limits
J: Indicates an estimated value
MTBE: Methyl Tert Butyl Ether
NA: Not Analyzed
ND: Not Detected
NM: Not Measured
NS: Not Sampled
PSH: Phase Seperated Hydrocarbons
TAME: Tertiary Amyl Methyl Ether
TBA: Tertiary Butyl Alcohol

Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
MW-1A	2/22/2013	NS	NS	NS	NS	6.42	0.236	12.22	0.69	-38
	5/1/2013	NS	NS	NS	NS	6.15	0.226	14.17	0.25	-27.2
	8/6/2013	NS	NS	NS	NS	5.85	0.232	17.26	1.49	81.9
	10/3/2013	NS	NS	NS	NS	5.48	0.239	19.48	0.82	30.4
	3/6/2014	NS	NS	NS	NS	6.26	0.228	13.22	4.08	-54.2
	6/12/2014	NS	NS	NS	NS	6.00	0.216	14.73	0.33	-10.6
	9/19/2014	<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	<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	<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	<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	<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	<1 [<1]	9.38 [9.21]	--	<0.1 [<0.1]	6.38	0.239	19.51	0.45	-233.0
	2/10/2016	1.24 [1.25]	5.64 [5.46]	4.21 [4.70]	<0.10 [<0.10]	5.98	0.167	10.39	1.47	14.5
MW-2A	2/22/2013	NS	NS	NS	NS	6.49	0.360	12.81	3.42	-49
	5/1/2013	NS	NS	NS	NS	6.49	0.328	14.52	0.29	-100.9
	8/6/2013	NS	NS	NS	NS	6.24	0.349	17.34	0.48	9.8
	10/3/2013	NS	NS	NS	NS	6.22	0.328	20.25	0.24	-63.4
	3/6/2014	NS	NS	NS	NS	6.71	0.334	11.24	4.37	-95.8
	6/12/2014	NS	NS	NS	NS	6.37	0.338	15.45	0.31	-66.5
	9/19/2014	1.76	41.0	5.08	<0.1	6.33	0.319	20.17	0.70	-106.3
	11/13/2014	<1	14.1	5.07	<0.1	6.46	0.369	18.97	3.17	-77.4
	3/25/2015	<1	9.94	1.08	<0.1	6.37	0.315	9.53	2.29	-37.4
	6/25/2015	9,990	11.6	1.46	<0.1	6.28	0.291	20.30	1.59	-52.3
	7/29/2015	<1	13.1	5.26	<0.1	11.39	0.317	18.00	0.24	-180.9
	10/29/2015	<1	18.6	--	<0.1	6.64	0.351	18.87	0.52	-188.7
	2/11/2016	<1.00	10.3	0.125	<0.100	7.85	0.212	8.60	1.17	-74.1
MW-3A	2/22/2013	NS	NS	NS	NS	6.91	0.535	13.68	4.10	152
	5/1/2013	NS	NS	NS	NS	6.79	0.437	14.45	2.39	125.8
	8/6/2013	NS	NS	NS	NS	6.68	0.345	16.84	5.07	273.5
	10/3/2013	NS	NS	NS	NS	4.96	0.309	18.66	0.45	24.7
	3/6/2014	NS	NS	NS	NS	7.34	0.269	14.17	8.89	42.7
	6/12/2014	NS	NS	NS	NS	6.59	0.351	15.14	4.28	56.5
	9/19/2014	38.4	0.855	<0.1	0.246	6.49	0.295	17.48	1.02	93.6
	11/13/2014	43.6	0.217	<0.1	1.34	6.93	0.293	18.72	6.00	-13.7

Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
MW-3A Cont.	3/25/2015	22.0	1.10	<0.1	1.20	7.04	0.357	11.53	7.77	205.9
	6/25/2015	116	0.736	<0.1	0.722	6.78	0.537	18.47	3.81	99.5
	7/29/2015	97.8	3.19	0.127	0.430	7.04	0.533	16.61	1.95	-133.9
	10/29/2015	61.5	8.42	--	0.896	7.20	0.391	18.52	3.52	-141.9
	2/12/2016	21.0	2.22	<0.100	0.952	7.56	0.259	7.97	2.49	36.1
MW-4	6/1/2005	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/7/2005	NS	NS	NS	NS	NS	NS	NS	NS	NS
	5/24/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS
	11/7/2006	NS	NS	NS	NS	NS	NS	NS	NS	NS
	6/21/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
	12/11/2007	NS	NS	NS	NS	NS	NS	NS	NS	NS
MW-5A	2/22/2013	NS	NS	NS	NS	6.01	1.11	14.99	3.26	21
	5/1/2013	NS	NS	NS	NS	5.91	0.716	15.26	0.21	-3.7
	8/6/2013	NS	NS	NS	NS	5.73	0.938	17.72	3.07	41.9
	10/3/2013	NS	NS	NS	NS	5.55	0.605	18.95	0.55	45.9
	3/6/2014	NS	NS	NS	NS	6.13	2.081	14.72	2.93	-53.4
	6/12/2014	NS	NS	NS	NS	NS	NS	NS	NS	NS
	9/19/2014	<1	8.21	6.39	<0.1	5.68	0.452	20.96	0.25	-53.0
	11/13/2014	1.73	15.2	2.02	<0.1	6.19	0.708	18.52	4.87	-25.8
	3/25/2015	18.9	29.9	16.5	<0.1	5.91	7.116	13.36	1.32	-123.3
	6/25/2015	<1	17.8	9.50	0.310	5.78	2.245	13.07	1.41	-7.2
	7/29/2015	<1	16.6	10.70	<0.1	5.94	2.032	17.71	0.13	6.3
	10/29/2015	<1	10.1	--	<0.1	7.23	0.582	18.58	0.20	-37.4
	2/10/2016	9.25	16.3	14.3	<0.1	6.02	1.614	10	0.79	-2.7
MW-8	2/22/2013	NS	NS	NS	NS	6.91	0.665	7.57	8.55	189
	5/1/2013	NS	NS	NS	NS	7.10	0.346	13.93	5.03	83.0
	8/6/2013	NS	NS	NS	NS	7.02	0.361	27.41	5.58	170.7
	10/3/2013	NS	NS	NS	NS	6.78	0.386	24.39	1.14	21.9
	3/6/2014	NS	NS	NS	NS	7.35	0.256	7.11	11.27	22.2
	6/12/2014	NS	NS	NS	NS	6.90	0.327	23.30	4.98	47.9
	9/19/2014	59.5	4.86	<0.1	0.705	7.02	0.328	23.35	1.34	91.4
	11/13/2014	39.6	0.655	<0.1	1.52	7.03	0.264	18.97	7.81	68.5
	3/25/2015	37.3	0.813	<0.1	1.59	7.16	0.281	9.04	8.42	218.1
	6/25/2015	60.6	<0.1	<0.1	1.48	6.83	0.417	26.89	4.62	132.5

Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
MW-8 Cont.	7/29/2015	110	<0.1	<0.1	0.308	7.10	0.598	28.43	0.68	-140.0
	10/29/2015	47.5	2.79	--	1.02	7.33	0.328	20.43	4.16	-169.9
	2/12/2016	NA	NA	NA	NA	8.74	0.173	8.90	9.26	-1.2
MW-10	2/22/2013	NS	NS	NS	NS	6.70	2.82	9.32	3.09	133
	5/1/2013	NS	NS	NS	NS	6.09	4.805	12.34	1.95	89.6
	8/6/2013	NS	NS	NS	NS	5.98	1.692	21.05	0.59	72.0
	10/3/2013	NS	NS	NS	NS	6.20	1.502	21.89	0.21	-3.1
	3/6/2014	NS	NS	NS	NS	5.89	23.39	8.39	2.63	221.0
	6/12/2014	NS	NS	NS	NS	6.43	6.873	18.67	0.66	120.7
	9/19/2014	1,030	4.97	1.82	<0.1	6.21	3.952	21.29	0.51	-5.6
	11/13/2014	41.1	2.13	0.470	0.301	6.36	1.508	17.53	2.05	33.4
	3/25/2015	55.7	2.74	<0.1	0.614	6.16	16.98	6.92	3.80	152.8
	6/25/2015	21.9	1.40	0.595	0.121	6.31	4.989	15.87	1.72	47.6
	7/29/2015	24.5	2.35	1.20	<0.1	6.28	6.968	20.54	0.39	54.5
	10/29/2015	11.8	5.58	--	0.112	7.60	2.695	19.37	1.29	-10.1
	2/10/2016	17.5	5.44	<0.1	0.103	5.94	5.544	8.99	0.65	39.9
MW-11	2/22/2013	NS	NS	NS	NS	6.20	0.202	12.31	1.87	42
	5/1/2013	NS	NS	NS	NS	5.70	0.221	13.28	0.74	58.3
	8/6/2013	NS	NS	NS	NS	5.85	0.176	19.14	1.75	100.2
	10/3/2013	NS	NS	NS	NS	5.72	0.177	21.03	1.00	67.0
	3/6/2014	NS	NS	NS	NS	6.02	2.082	11.57	6.02	39.6
	6/12/2014	NS	NS	NS	NS	6.14	0.593	16.43	4.01	86.4
	9/19/2014	6.27	9.72	7.01	<0.1	5.89	0.626	19.45	0.37	-138.4
	11/13/2014	7.16	76.3	1.20	<0.1	5.97	0.352	18.68	4.29	18.4
	3/25/2015	4.81	12.7	2.99	0.319	5.92	0.257	10.20	4.77	45.6
	6/25/2015	6.85	10.1	3.57	2.26	5.91	0.240	18.52	4.78	88.7
	7/29/2015	6.08	4.94	4.09	0.326	11.43	0.226	18.98	0.58	-200.2
	10/29/2015	5.96	7.52	--	0.205	6.04	0.210	20.10	2.58	-203.9
	2/1/2016	4.08	3.92	0.557	1.17	6.03	0.238	10.3	8.24	110.8
MW-12	2/22/2013	NS	NS	NS	NS	5.48	0.668	12.76	0.55	148
	5/1/2013	NS	NS	NS	NS	4.73	0.485	13.33	0.84	159.4
	8/6/2013	NS	NS	NS	NS	4.82	0.394	16.42	0.45	162.1
	10/3/2013	NS	NS	NS	NS	4.75	0.287	18.58	0.11	132.8
	3/6/2014	NS	NS	NS	NS	4.68	0.543	12.61	0.39	230.1

Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
MW-12 Cont.	6/12/2014	NS	NS	NS	NS	4.85	0.348	13.60	0.58	170.1
	9/19/2014	21.1	18.4	<0.1	0.155	4.98	0.205	16.90	1.29	-34.4
	11/13/2014	17.1	0.824	0.235	1.29	5.10	0.812	17.94	0.90	227.8
	3/25/2015	15.1	0.667	<0.1	0.624	5.06	0.750	10.71	4.76	231.9
	6/25/2015	19.5	1.78	0.265	0.171	4.95	0.431	14.85	2.49	195.7
	7/29/2015	29.0	0.936	0.151	<0.1	10.92	0.288	15.62	0.09	-183.0
	10/29/2015	16.7	32.4	--	4.59	7.20	0.537	18.63	0.34	-26.7
	2/10/2016	7.00	2.81	0.367	1.16	6.02	0.615	10.37	6.63	91.7
MW-13	2/22/2013	NS	NS	NS	NS	6.06	1.59	10.80	6.76	143
	5/1/2013	NS	NS	NS	NS	5.48	2.006	12.97	3.30	121.0
	8/6/2013	NS	NS	NS	NS	5.50	1.611	15.24	1.89	140.7
	10/3/2013	NS	NS	NS	NS	5.23	1.840	17.11	0.17	129.9
	3/6/2014	NS	NS	NS	NS	5.41	3.491	11.71	4.91	169.6
	6/12/2014	NS	NS	NS	NS	5.28	3.730	13.42	0.75	155.0
	9/19/2014	356	26.4	0.189	<0.1	5.33	2.286	15.99	1.31	-36.2
	11/13/2014	27.1	1.85	0.111	0.523	5.49	3.593	16.50	5.45	65.3
	3/25/2015	16.3	1.99	0.762	0.219	5.76	3.890	10.24	4.98	204.9
	6/25/2015	14.5	3.56	0.606	0.101	5.40	2.329	10.83	1.59	142.3
	7/29/2015	20.6	1.21	0.651	0.151	5.46	3.249	14.99	0.23	140.5
	10/29/2015	18.1	3.63	--	0.413	5.69	1.822	17.54	---	155.4
	2/11/2016	16.1	11.00	4.820	0.237	6.58	0.730	7.75	4.86	58.7
MW-14	2/22/2013	NS	NS	NS	NS	6.37	0.816	10.90	8.81	162
	5/1/2013	NS	NS	NS	NS	5.66	1.265	12.97	4.33	107.4
	8/6/2013	NS	NS	NS	NS	5.96	1.005	16.23	2.75	166.6
	10/3/2013	NS	NS	NS	NS	4.32	1.563	17.88	0.28	176.6
	3/6/2014	NS	NS	NS	NS	5.85	2.764	11.77	9.10	172.8
	6/12/2014	NS	NS	NS	NS	5.17	2.267	13.30	1.07	231.8
	9/19/2014	379	139	4.24	<0.1	5.43	2.222	16.40	1.00	-60.3
	11/13/2014	18.6	7.18	0.391	0.443	6.09	2.282	16.94	3.93	34.9
	3/25/2015	12.2	0.860	<0.1	0.255	5.90	2.432	9.35	8.34	118.2
	6/25/2015	8,850	8.73	1.10	0.287	5.14	1.920	11.37	5.11	136.6
	7/29/2015	12.1	13.0	3.85	0.284	5.98	1.763	15.58	1.02	107.7
	10/29/2015	15.7	20.7	--	2.13	6.04	1.066	17.66	----	86.7
	2/11/2016	12.3	5.6	2.34	0.325	6.89	0.587	7.46	----	71.2

Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
MW-15	2/22/2013		NS	NS	NS	6.21	0.665	11.47	5.88	202
	5/1/2013	NS	NS	NS	NS	5.62	0.807	12.37	2.98	108.1
	8/6/2013	NS	NS	NS	NS	5.80	0.523	15.35	0.70	75.7
	10/3/2013	NS	NS	NS	NS	3.48	0.609	17.73	0.86	237.0
	3/6/2014	NS	NS	NS	NS	5.77	0.704	11.83	2.83	184.6
	6/12/2014	NS	NS	NS	NS	5.56	0.897	13.00	0.78	231.4
	9/19/2014	232	8.44	<0.1	0.136	5.19	1.243	16.01	1.37	-80.2
	11/13/2014	22.8	5.97	<0.1	0.277	5.35	1.160	15.85	1.97	173.7
	3/25/2015	17.0	4.48	<0.1	0.210	5.86	1.102	10.69	5.58	163.8
	6/25/2015	13.9	2.16	0.286	0.283	5.49	0.893	10.50	1.14	162.2
	7/29/2015	19.4	2.85	<0.1	0.132	5.75	0.932	14.80	1.10	148.9
	10/29/2015	26.7	7.89	--	0.468	5.31	1.099	16.21	4.04	164.4
	2/11/2016	16.2	0.20	<0.100	0.663	6.28	0.546	7.76	6.94	81.8
MW-16	2/22/2013	NS	NS	NS	NS	5.39	0.351	11.38	4.57	298
	5/1/2013	NS	NS	NS	NS	4.87	0.457	12.01	4.38	128.0
	8/6/2013	NS	NS	NS	NS	4.99	0.207	15.87	1.96	155.3
	10/3/2013	NS	NS	NS	NS	4.73	0.402	18.20	2.06	144.8
	3/6/2014	NS	NS	NS	NS	5.39	0.215	11.43	6.06	212.6
	6/12/2014	NS	NS	NS	NS	4.97	0.360	13.47	0.32	209.7
	9/19/2014	21.5	1.18	<0.1	2.94	4.12	0.377	16.60	1.98	5.5
	11/13/2014	17.8	2.97	<0.1	2.65	4.57	0.338	16.89	1.79	315.6
	3/25/2015	7.46	2.32	<0.1	0.867	5.73	0.239	10.18	7.25	195
	6/25/2015	15.6	2.92	0.390	2.47	4.61	0.395	11.81	2.48	185.5
	7/29/2015	19.4	12.8	0.109	1.85	5.02	0.411	16.07	1.65	186.7
	10/29/2015	27.8	10.4	--	3.16	6.05	0.397	17.49	1.19	13.8
	2/11/2016	10.7	0.2	<0.100	1.53	5.33	0.21	10.57	---	122.7

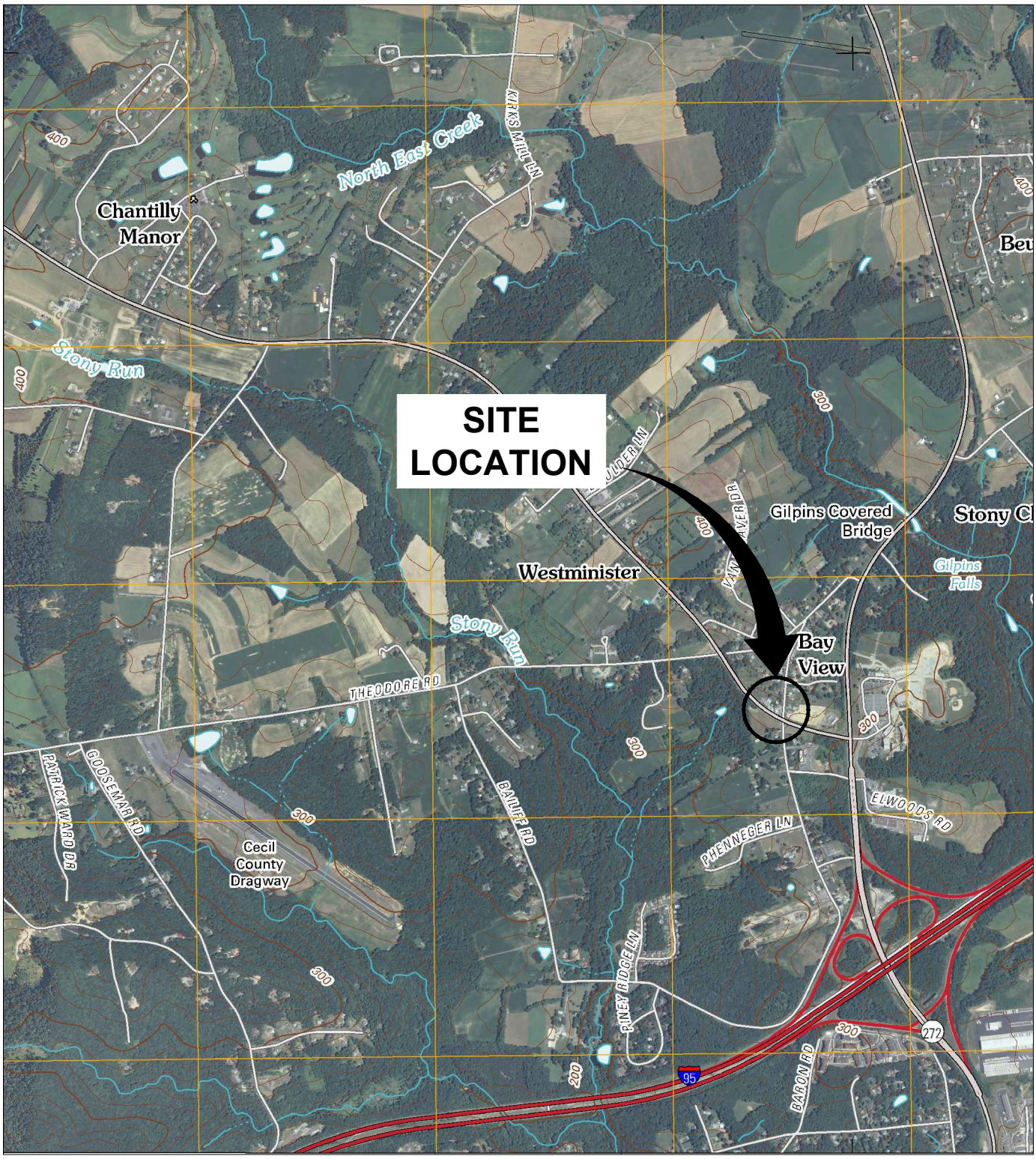
Table 3
Monitored Natural Attenuation Data
Former ExxonMobil Facility #14489
285 Old Bayview Road
North East, Maryland

		Laboratorry Analytical				Field Parameters				
Well ID	Date	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)
MEAT Groundwater Standard		--	***2,600***	--	--	--	--	--	--	--
INJ-1	2/11/2016	12.1	12.6	3.320	0.73	6.68	1.083	8.43	---	133.6
INJ-2	2/12/2016	<1.00	13.1	8.34	<0.100	6.71	0.287	7.70	4.70	-77.6
INJ-3	2/12/2016	2.25 F1	7.3	4.15 F1	<0.100 F1	6.39	0.237	9.19	0.29	-6.8

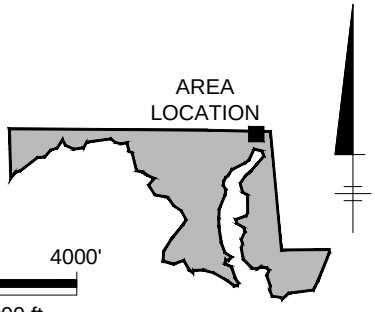
Definitions:

--: No Standard exists
<: Not detected at or above the listed laboratory reporting limit
°C: Degree Celcius
F1: Matrix spike and/or Matrix Spike Duplicate are outside of recovery limits
mg/L: Milligram per Liter
mS/cm: Millisiemens per Centimeter
mV: Millivolt
NA: Not Analized
NS: Not sampled
s.u.: Standard Unit

FIGURES



REFERENCE: BASE MAP USGS 7.5. MIN. TOPO. BAY VIEW, MARYLAND 2011.



0 2000' 4000'

Approximate Scale: 1 in. = 2000 ft.

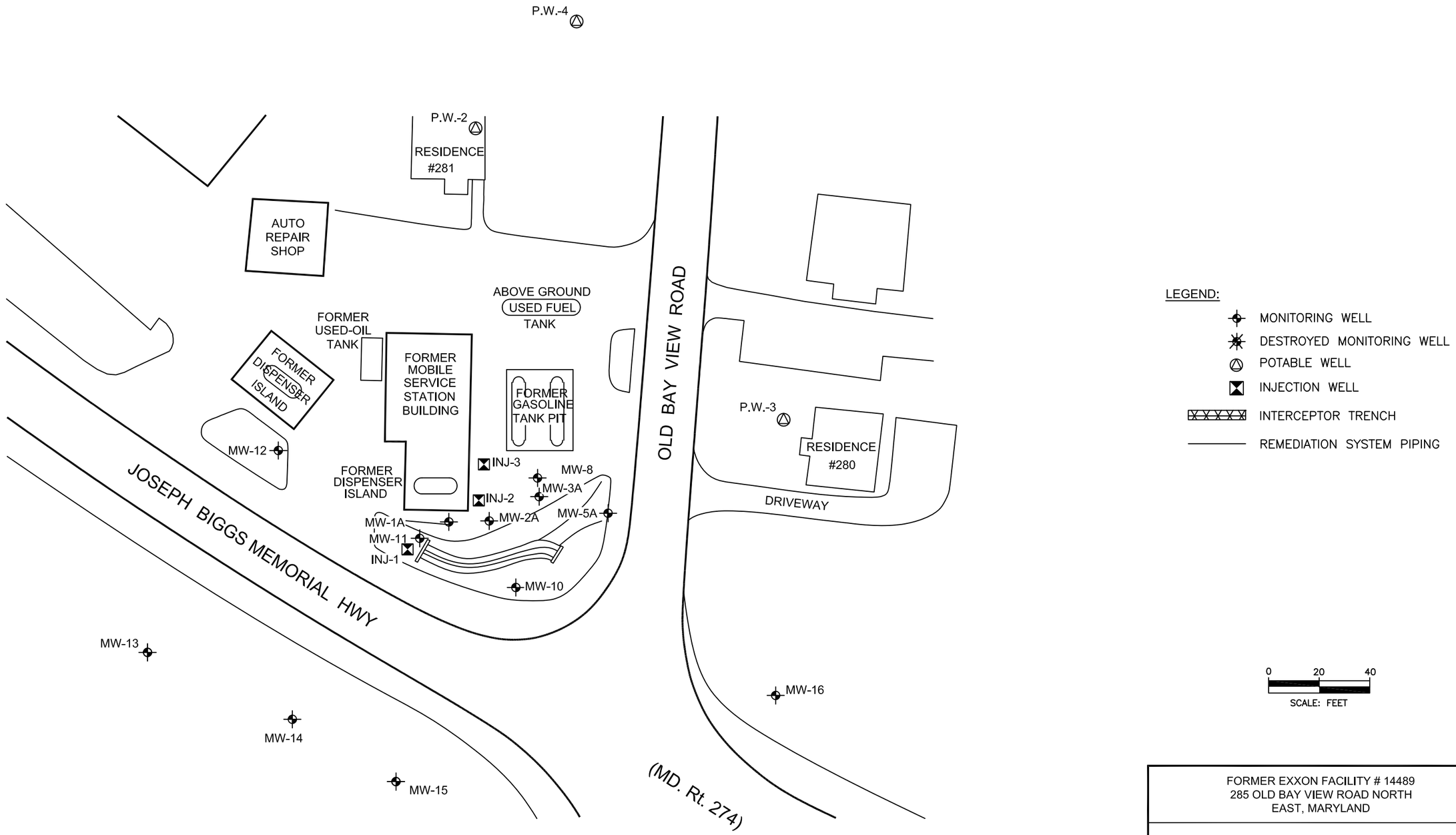
FORMER EXXON FACILITY # 14489
285 OLD BAY VIEW ROAD
NORTH EAST, MARYLAND

SITE LOCATION 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\Tallahassee-FL\ACT\B0085851\0010\00006\B0085851_0010_00003_W01_1Q2016.dwg LAYOUT: 1 SAVED: 3/23/2016 4:30 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: FDEP.CTB PLOTTED: 3/23/2016 4:32 PM BY: BERNDGEN, WENDY
XREFS:
PROJECTNAME: ----



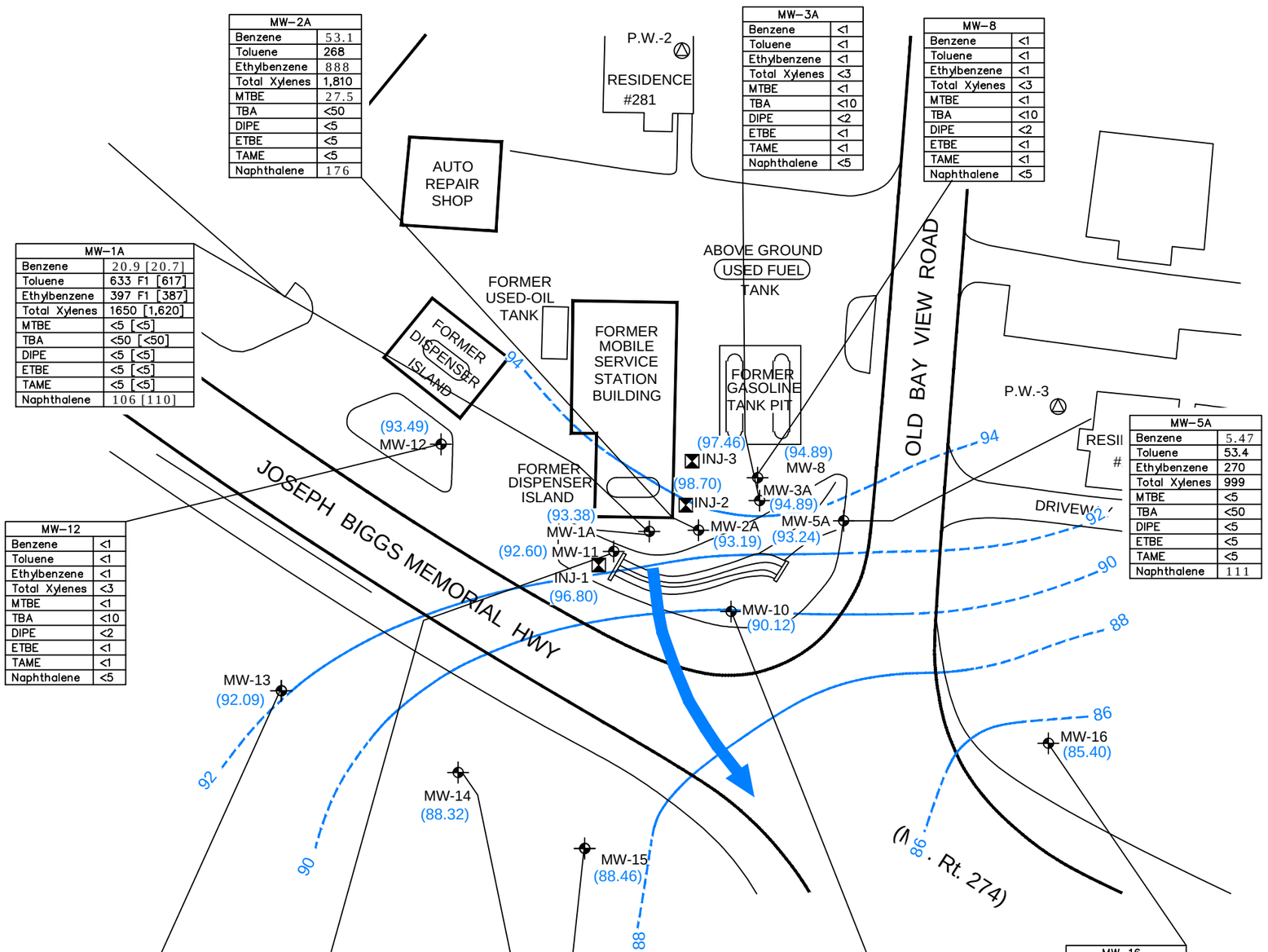
FORMER EXXON FACILITY # 14489
285 OLD BAY VIEW ROAD NORTH
EAST, MARYLAND

SITE MAP

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY:(Read) DIV/GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF* PAGESETUP: ---- PLOTSTYLETABLE: ---- PLOTTED:
G:\ENVCAD\Tallahassee-FL\ACT\B0085551\0010\00006\B0085551_0010_00003_W01_1Q2016.dwg LAYOUT: 2 SAVED: 3/23/2016 4:34 PM ACADVER: 18.1S (LMS TECH)
3/23/2016 5:07 PM BY: BERNDGEN, WENDY
XREFS: PROJECTNAME: ----



MW-2A	
Benzene	53.1
Toluene	268
Ethylbenzene	888
Total Xylenes	1,810
MTBE	27.5
TBA	<50
DIPE	<5
ETBE	<5
TAME	<5
Naphthalene	176

MW-3A	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-8	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-1A	
Benzene	20.9 [20.7]
Toluene	633 F1 [617]
Ethylbenzene	397 F1 [387]
Total Xylenes	1650 [1,620]
MTBE	<5 [<5]
TBA	<50 [<50]
DIPE	<5 [<5]
ETBE	<5 [<5]
TAME	<5 [<5]
Naphthalene	106 [110]

MW-5A	
Benzene	5.47
Toluene	53.4
Ethylbenzene	270
Total Xylenes	999
MTBE	<5
TBA	<50
DIPE	<5
ETBE	<5
TAME	<5
Naphthalene	111

MW-12	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

LEGEND:

- MONITORING WELL
- DESTROYED MONITORING WELL
- POTABLE WELL
- INJECTION WELL
- INTERCEPTOR TRENCH
- REMEDIATION SYSTEM PIPING
- 90 — GROUNDWATER ELEVATION CONTOUR–DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- (94.68) GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- INFERRED GROUNDWATER FLOW DIRECTION

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

Definitions:	
<:	The results is less than the shown method detection limit
--:	No standard currently exists
MTBE:	Methyl Tertiary Butyl Ether
TBA:	Tertiary Butyl Alcohol
TAME:	Tertiary Amyl Methyl Ether
ETBE:	Ethyl Tertiary Butyl Ether
DIPE:	Di-IsoPropyl Ether

NOTES:

1. THE GROUNDWATER ELEVATIONS FOR INJECTION WELLS INJ-1, INJ-2, AND INJ-3 WERE NOT USED FOR CONTOURING.
2. BOLD VALUES EXCEED THE APPLICABLE MEAT STANDARD.
3. VALUES LISTED IN BRACKETS ARE DUPLICATE SAMPLE RESULTS.

0 20 40
SCALE: FEET

MW-13	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-11	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<2
MTBE	<1
TBA	<10
DIPE	<1
ETBE	<1
TAME	<1
Naphthalene	<1

MW-14	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-15	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-10	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	23
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

MW-16	
Benzene	<1
Toluene	<1
Ethylbenzene	<1
Total Xylenes	<3
MTBE	<1
TBA	<10
DIPE	<2
ETBE	<1
TAME	<1
Naphthalene	<5

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

GROUNDWATER ELEVATION CONTOURS AND ANALYTICAL DATA FEBRUARY 10, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY:(Read) DIV/GROUP:(Read) 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_102016.dwg LAYOUT: 3 SAVED: 3/23/2016 5:51 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: ARCADIS.CTB
PLOTTED: 3/24/2016 10:53 AM BY: BERNDGEN, WENDY
XREFS: PROJECTNAME: ----

APPENDIX A

Potable Well Results Letters with Laboratory Analytical Report and Chain-of-Custody

Arcadis U.S., Inc.
111-D Sanders Lane
Bluefield
Virginia 24605
Tel 276 322 3879
Fax 276 322 3946
www.arcadis-us.com

Mr. Charles Broomall
259 Old Bayview Road
North East, Maryland 21901

Subject:
Potable Well Sampling Results
259 Old Bayview Road
North East, Maryland 21901

ENVIRONMENT

Date:
March 3, 2016

Contact:
Paul Goodell

Phone:
919-415-2327

Email:
Paul.Goodell@Arcadis.com

Our ref:
B0085851.0010

Dear Mr. Broomall:

Thank you for your cooperation in allowing Arcadis U.S., Inc. (Arcadis), on behalf of ExxonMobil Environmental Services (EMES), to sample your potable water well on February 11, 2016. The samples were obtained in an effort to maintain compliance with the Maryland Department of the Environment (MDE) as part of an ongoing environmental groundwater investigation at Former ExxonMobil Facility #14489 located at 285 Old Bayview Road, North East, Cecil County, Maryland.

During sampling activities, water samples were collected at three points from your point of entry treatment (POET) system as follow: 1) before the granular activated carbon (GAC) units (Influent), 2) between the GAC units (Midfluent), and 3) after the GAC units (Effluent). Water samples from each point were collected and analyzed separately for full list Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 524.2.

The results of the February 11, 2016 well sampling indicated the following:

- Influent: Dissolved-phase concentrations of diisopropyl ether (1.51 micrograms per liter (µg/L), methyl tert-butyl ether (MTBE) (54.2 µg/L), tert-butyl alcohol (TBA) (185 µg/L) were detected above the minimum laboratory detection limit. The dissolved-phase detection of MTBE (54.2 µg/L) exceeds the applicable MDE Generic Numeric Cleanup Standard for MTBE of 20 µg/L. Currently, the MDE does not have a published Generic Numeric Cleanup Standard for diisopropyl ether or TBA.

- Midfluent: Dissolved-phase concentrations of TBA (78.2 µg/L) were detected above the minimum laboratory detection limit. Currently, the MDE does not have a published Generic Cleanup Standard for TBA.

- Effluent: No dissolved-phase VOCs were detected above the minimum laboratory detection limit.

Thank you for your cooperation. If you have any questions regarding the sampling results or investigation in your area, please contact Mr. Paul Goodell (Arcadis) at 919-415-2327, Ms. Jeannette DeBartolomeo (MDE) at 410-537-3427, or Mr. John Hoban (EMES) at (215) 402-0309.

Sincerely,

Arcadis U.S., Inc.

Paul Goodell

Paul Goodell
AFS Project Manager 5

Attachments:
Laboratory Analytical Report (259 Old Bayview Road) – February 29, 2016

Copies:
Mr. John Hoban – EMES
File – EM 14489

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: 490-97669-1
Client Project/Site: 14489 - 259 Old Day View Rd, North East

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

Attn: Paul Goodell

Jennifer Huckaba

Authorized for release by:
2/29/2016 6:36:36 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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QC Sample Results 14
QC Association 19
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Method Summary 21
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Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-97669-1	259OBR Effluent	Drinking Water	02/11/16 12:20	02/17/16 09:45
490-97669-2	259OBR Midfluent	Drinking Water	02/11/16 12:25	02/17/16 09:45
490-97669-3	259OBR Influent	Drinking Water	02/11/16 12:30	02/17/16 09:45
490-97669-4	Trip Blank	Water	02/11/16 00:01	02/17/16 09:45

Job ID: 490-97669-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-97669-1

Comments
No additional comments.

Receipt
The samples were received on 2/17/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7º C.

GC/MS VOA
Method(s) 524.2: The following trip blanks have results reported for chloroform. There is insufficient sample volume available for confirmation reanalysis. Trip Blank (490-97669-4)

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 490-319803 recovered below the lower control limit for the following analytes: naphthalene, dichlorodifluroromethane, chlorodibromomethane and 1,2-dibromo-3-chloropropane. The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovered within method guidelines. The data have been reported.

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 490-319803 recovered below the lower control limit for the following analytes: bromoform.

Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-319803 recovered outside control limits for the following analytes: 1,1,2-Trichloroethane, 1,3-Dichloropropane, Bromomethane and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for analytical batch 490-319803 recovered below the lower control limit for the following analytes: bromoform.

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 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

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 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Effluent

Date Collected: 02/11/16 12:20
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-1

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			02/25/16 20:45	1
Bromobenzene	ND		0.500		ug/L			02/25/16 20:45	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 20:45	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 20:45	1
Bromoform	ND	*	0.500		ug/L			02/25/16 20:45	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 20:45	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 20:45	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 20:45	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 20:45	1
Chloroethane	ND		0.500		ug/L			02/25/16 20:45	1
Chloroform	ND		0.500		ug/L			02/25/16 20:45	1
Chloromethane	ND		0.500		ug/L			02/25/16 20:45	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 20:45	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 20:45	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 20:45	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 20:45	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 20:45	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 20:45	1
Dibromomethane	ND		0.500		ug/L			02/25/16 20:45	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 20:45	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 20:45	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 20:45	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 20:45	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 20:45	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 20:45	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 20:45	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 20:45	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 20:45	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 20:45	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 20:45	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 20:45	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 20:45	1
Naphthalene	ND		5.00		ug/L			02/25/16 20:45	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 20:45	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
Styrene	ND		0.500		ug/L			02/25/16 20:45	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 20:45	1
tert-Butyl alcohol	ND		10.0		ug/L			02/25/16 20:45	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 20:45	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 20:45	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Effluent

Date Collected: 02/11/16 12:20
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-1

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			02/25/16 20:45	1
Toluene	ND		0.500		ug/L			02/25/16 20:45	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 20:45	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 20:45	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 20:45	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 20:45	1
Trichloroethene	ND		0.500		ug/L			02/25/16 20:45	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 20:45	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 20:45	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 20:45	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 20:45	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 20:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*02/25/16 20:45*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/25/16 20:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*70 - 130*		*02/25/16 20:45*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*02/25/16 20:45*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Midfluent

Date Collected: 02/11/16 12:25
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-2

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			02/25/16 21:10	1
Bromobenzene	ND		0.500		ug/L			02/25/16 21:10	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 21:10	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 21:10	1
Bromoform	ND	*	0.500		ug/L			02/25/16 21:10	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 21:10	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 21:10	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 21:10	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 21:10	1
Chloroethane	ND		0.500		ug/L			02/25/16 21:10	1
Chloroform	ND		0.500		ug/L			02/25/16 21:10	1
Chloromethane	ND		0.500		ug/L			02/25/16 21:10	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 21:10	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 21:10	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 21:10	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 21:10	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 21:10	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 21:10	1
Dibromomethane	ND		0.500		ug/L			02/25/16 21:10	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 21:10	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 21:10	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 21:10	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 21:10	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 21:10	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 21:10	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 21:10	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 21:10	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 21:10	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 21:10	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 21:10	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 21:10	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 21:10	1
Naphthalene	ND		5.00		ug/L			02/25/16 21:10	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 21:10	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
Styrene	ND		0.500		ug/L			02/25/16 21:10	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 21:10	1
tert-Butyl alcohol	**78.2**		10.0		ug/L			02/25/16 21:10	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 21:10	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 21:10	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Midfluent

Date Collected: 02/11/16 12:25
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-2

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			02/25/16 21:10	1
Toluene	ND		0.500		ug/L			02/25/16 21:10	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 21:10	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 21:10	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 21:10	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 21:10	1
Trichloroethene	ND		0.500		ug/L			02/25/16 21:10	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 21:10	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 21:10	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 21:10	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 21:10	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/25/16 21:10*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/25/16 21:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/25/16 21:10*	*1*
Toluene-d8 (Surr)	*114*		*70 - 130*		*02/25/16 21:10*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Influent

Date Collected: 02/11/16 12:30
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-3

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			02/25/16 19:03	1
Bromobenzene	ND		0.500		ug/L			02/25/16 19:03	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 19:03	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 19:03	1
Bromoform	ND	*	0.500		ug/L			02/25/16 19:03	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 19:03	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 19:03	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 19:03	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 19:03	1
Chloroethane	ND		0.500		ug/L			02/25/16 19:03	1
Chloroform	ND		0.500		ug/L			02/25/16 19:03	1
Chloromethane	ND		0.500		ug/L			02/25/16 19:03	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 19:03	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 19:03	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 19:03	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 19:03	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 19:03	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 19:03	1
Dibromomethane	ND		0.500		ug/L			02/25/16 19:03	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 19:03	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 19:03	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 19:03	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 19:03	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 19:03	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 19:03	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 19:03	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 19:03	1
Diisopropyl ether	**1.51**		0.500		ug/L			02/25/16 19:03	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 19:03	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 19:03	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 19:03	1
Methyl tert-butyl ether	**54.2**		2.50		ug/L			02/25/16 19:29	5
Naphthalene	ND		5.00		ug/L			02/25/16 19:03	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 19:03	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
Styrene	ND		0.500		ug/L			02/25/16 19:03	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 19:03	1
tert-Butyl alcohol	**185**		10.0		ug/L			02/25/16 19:03	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 19:03	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 19:03	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Influent

Date Collected: 02/11/16 12:30
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97669-3

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			02/25/16 19:03	1
Toluene	ND		0.500		ug/L			02/25/16 19:03	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 19:03	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 19:03	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 19:03	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 19:03	1
Trichloroethene	ND		0.500		ug/L			02/25/16 19:03	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 19:03	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 19:03	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 19:03	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 19:03	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 19:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*		*02/25/16 19:03*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/25/16 19:29*	*5*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/25/16 19:03*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*02/25/16 19:29*	*5*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/25/16 19:03*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*02/25/16 19:29*	*5*
Toluene-d8 (Surr)	*112*		*70 - 130*		*02/25/16 19:03*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*02/25/16 19:29*	*5*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-97669-4
Date Collected: 02/11/16 00:01
Matrix: Water
Date Received: 02/17/16 09:45

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			02/25/16 20:20	1
Bromobenzene	ND		0.500		ug/L			02/25/16 20:20	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 20:20	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 20:20	1
Bromoform	ND	*	0.500		ug/L			02/25/16 20:20	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 20:20	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 20:20	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 20:20	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 20:20	1
Chloroethane	ND		0.500		ug/L			02/25/16 20:20	1
Chloroform	**4.26**		0.500		ug/L			02/25/16 20:20	1
Chloromethane	ND		0.500		ug/L			02/25/16 20:20	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 20:20	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 20:20	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 20:20	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 20:20	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 20:20	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 20:20	1
Dibromomethane	ND		0.500		ug/L			02/25/16 20:20	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 20:20	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 20:20	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 20:20	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 20:20	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 20:20	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 20:20	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 20:20	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 20:20	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 20:20	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 20:20	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 20:20	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 20:20	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 20:20	1
Naphthalene	ND		5.00		ug/L			02/25/16 20:20	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 20:20	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
Styrene	ND		0.500		ug/L			02/25/16 20:20	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 20:20	1
tert-Butyl alcohol	ND		10.0		ug/L			02/25/16 20:20	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 20:20	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 20:20	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-97669-4

Date Collected: 02/11/16 00:01
Date Received: 02/17/16 09:45

Matrix: 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			02/25/16 20:20	1
Toluene	ND		0.500		ug/L			02/25/16 20:20	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 20:20	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 20:20	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 20:20	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 20:20	1
Trichloroethene	ND		0.500		ug/L			02/25/16 20:20	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 20:20	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 20:20	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 20:20	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 20:20	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 20:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*02/25/16 20:20*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*02/25/16 20:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*		*02/25/16 20:20*	*1*
Toluene-d8 (Surr)	*107*		*70 - 130*		*02/25/16 20:20*	*1*

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

Lab Sample ID: MB 490-319803/6
Matrix: Water
Analysis Batch: 319803

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			02/25/16 17:58	1
Bromobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 17:58	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 17:58	1
Bromoform	ND		0.500		ug/L			02/25/16 17:58	1
Bromomethane	ND		0.500		ug/L			02/25/16 17:58	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 17:58	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 17:58	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 17:58	1
Chloroethane	ND		0.500		ug/L			02/25/16 17:58	1
Chloroform	ND		0.500		ug/L			02/25/16 17:58	1
Chloromethane	ND		0.500		ug/L			02/25/16 17:58	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 17:58	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 17:58	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 17:58	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 17:58	1
Dibromomethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,3-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 17:58	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 17:58	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Naphthalene	ND		5.00		ug/L			02/25/16 17:58	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 17:58	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Styrene	ND		0.500		ug/L			02/25/16 17:58	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 17:58	1
tert-Butyl alcohol	ND		10.0		ug/L			02/25/16 17:58	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 17:58	1

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

Lab Sample ID: MB 490-319803/6
Matrix: Water
Analysis Batch: 319803

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			02/25/16 17:58	1
Tetrachloroethene	ND		0.500		ug/L			02/25/16 17:58	1
Toluene	ND		0.500		ug/L			02/25/16 17:58	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1,2-Trichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
Trichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 17:58	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/25/16 17:58*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/25/16 17:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/25/16 17:58*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*02/25/16 17:58*	*1*

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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	4.896		ug/L		98	70 - 130
Bromobenzene	5.00	4.426		ug/L		89	70 - 130
Bromochloromethane	5.00	5.079		ug/L		102	70 - 130
Bromodichloromethane	5.00	4.239		ug/L		85	70 - 130
Bromoform	5.00	3.439	*	ug/L		69	70 - 130
Bromomethane	5.00	7.161	*	ug/L		143	70 - 130
Carbon disulfide	5.00	4.187		ug/L		84	70 - 130
Carbon tetrachloride	5.00	4.080		ug/L		82	70 - 130
Chlorobenzene	5.00	4.937		ug/L		99	70 - 130
Chlorodibromomethane	5.00	3.698		ug/L		74	70 - 130
Chloroethane	5.00	5.051		ug/L		101	70 - 130
Chloroform	5.00	4.849		ug/L		97	70 - 130
Chloromethane	5.00	4.608		ug/L		92	70 - 130
2-Chlorotoluene	5.00	4.454		ug/L		89	70 - 130
4-Chlorotoluene	5.00	4.085		ug/L		82	70 - 130
cis-1,2-Dichloroethene	5.00	4.765		ug/L		95	70 - 130
cis-1,3-Dichloropropene	5.00	5.591		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	3.662		ug/L		73	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.689		ug/L		94	70 - 130
Dibromomethane	5.00	4.640		ug/L		93	70 - 130

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

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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	4.444		ug/L		89	70 - 130
1,3-Dichlorobenzene	5.00	4.262		ug/L		85	70 - 130
1,4-Dichlorobenzene	5.00	4.608		ug/L		92	70 - 130
Dichlorodifluoromethane	5.00	3.533		ug/L		71	70 - 130
1,1-Dichloroethane	5.00	4.803		ug/L		96	70 - 130
1,2-Dichloroethane	5.00	5.118		ug/L		102	70 - 130
1,1-Dichloroethene	5.00	4.407		ug/L		88	70 - 130
1,2-Dichloropropane	5.00	4.851		ug/L		97	70 - 130
1,3-Dichloropropane	5.00	7.484	*	ug/L		150	70 - 130
2,2-Dichloropropane	5.00	4.088		ug/L		82	70 - 130
1,1-Dichloropropene	5.00	4.584		ug/L		92	70 - 130
Diisopropyl ether	5.00	4.923		ug/L		98	70 - 130
Ethylbenzene	5.00	4.579		ug/L		92	70 - 130
Ethyl tert-butyl ether	5.00	4.639		ug/L		93	70 - 130
Hexachlorobutadiene	5.00	4.147		ug/L		83	70 - 130
Isopropylbenzene	5.00	4.452		ug/L		89	70 - 130
Methylene Chloride	5.00	3.604	J	ug/L		72	70 - 130
Methyl tert-butyl ether	5.00	4.566		ug/L		91	70 - 130
Naphthalene	5.00	3.562	J	ug/L		71	70 - 130
n-Butylbenzene	5.00	4.183		ug/L		84	70 - 130
N-Propylbenzene	5.00	4.173		ug/L		83	70 - 130
p-Isopropyltoluene	5.00	4.139		ug/L		83	70 - 130
sec-Butylbenzene	5.00	4.124		ug/L		82	70 - 130
Styrene	5.00	4.579		ug/L		92	70 - 130
Tert-amyl methyl ether	5.00	4.623		ug/L		92	70 - 130
tert-Butyl alcohol	50.0	58.78		ug/L		118	70 - 130
tert-Butylbenzene	5.00	4.078		ug/L		82	70 - 130
1,1,1,2-Tetrachloroethane	5.00	4.156		ug/L		83	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.353		ug/L		87	70 - 130
Tetrachloroethene	5.00	7.038	*	ug/L		141	70 - 130
Toluene	5.00	6.363		ug/L		127	70 - 130
trans-1,2-Dichloroethene	5.00	4.644		ug/L		93	70 - 130
trans-1,3-Dichloropropene	5.00	4.874		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	5.00	4.006		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	5.00	4.172		ug/L		83	70 - 130
1,1,1-Trichloroethane	5.00	4.371		ug/L		87	70 - 130
1,1,2-Trichloroethane	5.00	6.456		ug/L		129	70 - 130
Trichloroethene	5.00	4.873		ug/L		97	70 - 130
Trichlorofluoromethane	5.00	4.462		ug/L		89	70 - 130
1,2,3-Trichloropropane	5.00	4.464		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	5.00	4.098		ug/L		82	70 - 130
1,3,5-Trimethylbenzene	5.00	4.141		ug/L		83	70 - 130
Vinyl chloride	5.00	4.327		ug/L		87	70 - 130
Xylenes, Total	10.0	8.854		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

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

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 490-319803/4
Matrix: Water
Analysis Batch: 319803

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	4.812		ug/L		96	70 - 130	2	20
Bromobenzene	5.00	4.395		ug/L		88	70 - 130	1	20
Bromochloromethane	5.00	5.061		ug/L		101	70 - 130	0	20
Bromodichloromethane	5.00	4.249		ug/L		85	70 - 130	0	20
Bromoform	5.00	3.647		ug/L		73	70 - 130	6	20
Bromomethane	5.00	6.853	*	ug/L		137	70 - 130	4	20
Carbon disulfide	5.00	4.117		ug/L		82	70 - 130	2	20
Carbon tetrachloride	5.00	3.989		ug/L		80	70 - 130	2	20
Chlorobenzene	5.00	5.054		ug/L		101	70 - 130	2	20
Chlorodibromomethane	5.00	3.484		ug/L		70	70 - 130	6	20
Chloroethane	5.00	4.381		ug/L		88	70 - 130	14	20
Chloroform	5.00	4.600		ug/L		92	70 - 130	5	20
Chloromethane	5.00	4.792		ug/L		96	70 - 130	4	20
2-Chlorotoluene	5.00	4.559		ug/L		91	70 - 130	2	20
4-Chlorotoluene	5.00	4.130		ug/L		83	70 - 130	1	20
cis-1,2-Dichloroethene	5.00	4.640		ug/L		93	70 - 130	3	20
cis-1,3-Dichloropropene	5.00	5.471		ug/L		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	5.00	4.076		ug/L		82	70 - 130	11	20
1,2-Dibromoethane (EDB)	5.00	5.063		ug/L		101	70 - 130	8	20
Dibromomethane	5.00	4.810		ug/L		96	70 - 130	4	20
1,2-Dichlorobenzene	5.00	4.521		ug/L		90	70 - 130	2	20
1,3-Dichlorobenzene	5.00	4.614		ug/L		92	70 - 130	8	20
1,4-Dichlorobenzene	5.00	4.408		ug/L		88	70 - 130	4	20
Dichlorodifluoromethane	5.00	3.586		ug/L		72	70 - 130	2	20
1,1-Dichloroethane	5.00	4.670		ug/L		93	70 - 130	3	20
1,2-Dichloroethane	5.00	5.126		ug/L		103	70 - 130	0	20
1,1-Dichloroethene	5.00	4.318		ug/L		86	70 - 130	2	20
1,2-Dichloropropane	5.00	4.870		ug/L		97	70 - 130	0	20
1,3-Dichloropropane	5.00	7.512	*	ug/L		150	70 - 130	0	20
2,2-Dichloropropane	5.00	3.995		ug/L		80	70 - 130	2	20
1,1-Dichloropropene	5.00	4.689		ug/L		94	70 - 130	2	20
Diisopropyl ether	5.00	4.955		ug/L		99	70 - 130	1	20
Ethylbenzene	5.00	4.556		ug/L		91	70 - 130	0	20
Ethyl tert-butyl ether	5.00	4.628		ug/L		93	70 - 130	0	20
Hexachlorobutadiene	5.00	4.294		ug/L		86	70 - 130	3	20
Isopropylbenzene	5.00	4.336		ug/L		87	70 - 130	3	20
Methylene Chloride	5.00	3.995	J	ug/L		80	70 - 130	10	20
Methyl tert-butyl ether	5.00	4.590		ug/L		92	70 - 130	1	20
Naphthalene	5.00	4.131	J	ug/L		83	70 - 130	15	20
n-Butylbenzene	5.00	4.042		ug/L		81	70 - 130	3	20

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

Lab Sample ID: LCSD 490-319803/4
Matrix: Water
Analysis Batch: 319803

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	4.251		ug/L		85	70 - 130	2	20
p-Isopropyltoluene			5.00	4.495		ug/L		90	70 - 130	8	20
sec-Butylbenzene			5.00	4.137		ug/L		83	70 - 130	0	20
Styrene			5.00	4.603		ug/L		92	70 - 130	1	20
Tert-amyl methyl ether			5.00	4.594		ug/L		92	70 - 130	1	20
tert-Butyl alcohol			50.0	63.87		ug/L		128	70 - 130	8	20
tert-Butylbenzene			5.00	4.220		ug/L		84	70 - 130	3	20
1,1,1,2-Tetrachloroethane			5.00	4.279		ug/L		86	70 - 130	3	20
1,1,2,2-Tetrachloroethane			5.00	4.330		ug/L		87	70 - 130	1	20
Tetrachloroethene			5.00	6.690	*	ug/L		134	70 - 130	5	20
Toluene			5.00	6.183		ug/L		124	70 - 130	3	20
trans-1,2-Dichloroethene			5.00	4.681		ug/L		94	70 - 130	1	20
trans-1,3-Dichloropropene			5.00	5.165		ug/L		103	70 - 130	6	20
1,2,3-Trichlorobenzene			5.00	4.195		ug/L		84	70 - 130	5	20
1,2,4-Trichlorobenzene			5.00	4.424		ug/L		88	70 - 130	6	20
1,1,1-Trichloroethane			5.00	4.268		ug/L		85	70 - 130	2	20
1,1,2-Trichloroethane			5.00	6.710	*	ug/L		134	70 - 130	4	20
Trichloroethene			5.00	4.830		ug/L		97	70 - 130	1	20
Trichlorofluoromethane			5.00	4.490		ug/L		90	70 - 130	1	20
1,2,3-Trichloropropane			5.00	4.745		ug/L		95	70 - 130	6	20
1,2,4-Trimethylbenzene			5.00	4.307		ug/L		86	70 - 130	5	20
1,3,5-Trimethylbenzene			5.00	4.179		ug/L		84	70 - 130	1	20
Vinyl chloride			5.00	4.795		ug/L		96	70 - 130	10	20
Xylenes, Total			10.0	8.611		ug/L		86	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

GC/MS VOA

Analysis Batch: 319803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97669-1	259OBR Effluent	Total/NA	Drinking Water	524.2	
490-97669-2	259OBR Midfluent	Total/NA	Drinking Water	524.2	
490-97669-3	259OBR Influent	Total/NA	Drinking Water	524.2	
490-97669-3	259OBR Influent	Total/NA	Drinking Water	524.2	
490-97669-4	Trip Blank	Total/NA	Water	524.2	
LCS 490-319803/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-319803/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-319803/6	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Client Sample ID: 259OBR Effluent

Lab Sample ID: 490-97669-1
Date Collected: 02/11/16 12:20
Matrix: Drinking Water
Date Received: 02/17/16 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	319803	02/25/16 20:45	JJR	TAL NSH

Client Sample ID: 259OBR Midfluent

Lab Sample ID: 490-97669-2
Date Collected: 02/11/16 12:25
Matrix: Drinking Water
Date Received: 02/17/16 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	319803	02/25/16 21:10	JJR	TAL NSH

Client Sample ID: 259OBR Influent

Lab Sample ID: 490-97669-3
Date Collected: 02/11/16 12:30
Matrix: Drinking Water
Date Received: 02/17/16 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	319803	02/25/16 19:03	JJR	TAL NSH
Total/NA	Analysis	524.2		5	10 mL	10 mL	319803	02/25/16 19:29	JJR	TAL NSH

Client Sample ID: Trip Blank

Lab Sample ID: 490-97669-4
Date Collected: 02/11/16 00:01
Matrix: Water
Date Received: 02/17/16 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	319803	02/25/16 20:20	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 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

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 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

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	03-31-17

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
524.2		Water	1,1,1,2-Tetrachloroethane
524.2		Water	1,1,2,2-Tetrachloroethane
524.2		Water	1,1-Dichloroethane
524.2		Water	1,1-Dichloropropene
524.2		Water	1,2,3-Trichlorobenzene
524.2		Water	1,2,3-Trichloropropane
524.2		Water	1,2,4-Trimethylbenzene

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: 14489 - 259 Old Day View Rd, North East

TestAmerica Job ID: 490-97669-1

Laboratory: TestAmerica Nashville (Continued)

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	03-31-17

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

490-97669 Chain of Custody

Cooler Received/Opened On 2-17-16@ 0945

Time Samples Removed From Cooler 1244 Patricia Walkin Time Samples Placed In Storage 0959 (2 Hour Window)

1. Tracking # 8742 0850 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18290455~~ 17960397 mm 2-11-16 pH Strip Lot ~~HC554612~~ HC559158 mm 2-11-16 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 2.7 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 1 back

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) TTT

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 #

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

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 2/17/16

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) JW

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) JW

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

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 12/15/15

Loc: 490
97669

2/29/2016

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

Pg 1 of 1

Consultant Name: Arcadis U.S. Inc
Address: ~~1114 Denfield Blvd, Suite A~~ 801 Corporate Center Drive Suite 300
City/State/Zip: ~~Millersville, MD 21108~~ Raleigh, NC 27607
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: ~~410 923 7813~~ 919.415.2327 Fax No.:
Sampler Name: (Print) W.K. Carr
Sampler Signature: W.K. Carr

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 259 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 VOCs + Full Oxygenates	Trip Blank - 8260 VOC	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
1	259 OBR Effluent	02.11.16	1220	3	/					/								/				/			5 Day		5 Day
2	259 OBR Midfluent	↓	1225	3	/					/								/				/					
3	259 OBR Influent	↓	1230	3	/					/								/				/					
4	Trip Blank (lab supplied)	–	–	2						/													/				Standard

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
W.K. Carr	02.15.16	1600	FEF#6638 3259 3742	02.15.16	1600
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			Sonal Nw TAN 2.7	2/17/16	0945

* 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: 490-97669-1

Login Number: 97669
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	2.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

Arcadis U.S., Inc.
111-D Sanders Lane
Bluefield
Virginia 24605
Tel 276 322 3879
Fax 276 322 3946
www.arcadis-us.com

Mr. Thomas Murtaugh
Ms. Melissa Arnold-Murtaugh
261 Old Bayview Road
North East, Maryland 21901

ENVIRONMENT

Subject:
Potable Well Sampling Results
261 Old Bayview Road
North East, Maryland 21901

Date:
March 3, 2016

Contact:
Paul Goodell

Phone:
919-415-2327

Email:
Paul.Goodell@Arcadis.com

Our ref:
B0085851.0010

Dear Mr. Murtaugh and Ms. Arnold-Murtaugh:

Thank you for your cooperation in allowing Arcadis U.S., Inc. (Arcadis), on behalf of ExxonMobil Environmental Services (EMES), to sample your potable water well on February 11, 2016. The samples were obtained in an effort to maintain compliance with the Maryland Department of the Environment (MDE) as part of an ongoing environmental groundwater investigation at Former ExxonMobil Facility #14489 located at 285 Old Bayview Road, North East, Cecil County, Maryland.

On February 11, 2016, the potable well sample was collected from the outdoor spigot on your property. The potable well sample was analyzed for full list Volatile Organic Compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 524.2.

The results of the February 11, 2016 potable well sampling indicated the following:

- Dissolved-phase concentrations of MTBE (9.73 micrograms per liter (µg/L)) and tert-butyl alcohol (TBA) (33.4 µg/L). The dissolved-phase concentration of MTBE (9.73 µg/L) is less than the applicable MDE Generic Numeric Cleanup Standard for MTBE (20 µg/L). Currently, the MDE does not have a published Generic Numeric Cleanup Standard for TBA.

Thank you for your cooperation. If you have any questions regarding the sampling results or investigation in your area, please contact Mr. Paul Goodell (Arcadis) at 919-415-2327, Ms. Jeannette DeBartolomeo (MDE) at 410-537-3427, or Mr. John Hoban (EMES) at (215) 402-0309.

Sincerely,

Arcadis U.S., Inc.

Paul Goodell
AFS Project Manager 5

Attachments:
Laboratory Analytical Report (261 Old Bayview Road) – February 29, 2016

Copies:
Mr. John Hoban – EMES
File – EM 14489

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: 490-97605-1
Client Project/Site: 14489 - North East, MD

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

Attn: Paul Goodell

Jennifer Huckaba

Authorized for release by:
2/29/2016 6:26:54 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: 490-97605-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-97605-1	2610BR	Drinking Water	02/11/16 12:45	02/17/16 09:45
490-97605-2	Trip Blank	Water	02/11/16 00:01	02/17/16 09:45

Job ID: 490-97605-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-97605-1

Comments
No additional comments.

Receipt
The samples were received on 2/17/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.7º C.

GC/MS VOA
Method(s) 524.2: The following trip blanks have results reported for chloroform. There is insufficient sample volume available for confirmation reanalysis. Trip Blank (490-97605-2).

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 490-319803 recovered below the lower control limit for the following analytes: naphthalene, dichlorodifluroromethane, chlorodibromomethane and 1,2-dibromo-3-chloropropane. The laboratory control sample/laboratory control sample duplicate (LCS/LCSD) recovered within method guidelines. The data have been reported.

Method(s) 524.2: The continuing calibration verification (CCV) associated with batch 490-319803 recovered below the lower control limit for the following analytes: bromoform.

Method(s) 524.2: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 490-319803 recovered outside control limits for the following analytes: 1,1,2-Trichloroethane, 1,3-Dichloropropane, Bromomethane and Tetrachloroethene. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 524.2: The laboratory control sample (LCS) for analytical batch 490-319803 recovered below the lower control limit for the following analytes: bromoform.

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, MD

TestAmerica Job ID: 490-97605-1

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, MD

TestAmerica Job ID: 490-97605-1

Client Sample ID: 2610BR

Date Collected: 02/11/16 12:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-1

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			02/25/16 21:36	1
Bromobenzene	ND		0.500		ug/L			02/25/16 21:36	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 21:36	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 21:36	1
Bromoform	ND	*	0.500		ug/L			02/25/16 21:36	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 21:36	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 21:36	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 21:36	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 21:36	1
Chloroethane	ND		0.500		ug/L			02/25/16 21:36	1
Chloroform	ND		0.500		ug/L			02/25/16 21:36	1
Chloromethane	ND		0.500		ug/L			02/25/16 21:36	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 21:36	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 21:36	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 21:36	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 21:36	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 21:36	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 21:36	1
Dibromomethane	ND		0.500		ug/L			02/25/16 21:36	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 21:36	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 21:36	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 21:36	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 21:36	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 21:36	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 21:36	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 21:36	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 21:36	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 21:36	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 21:36	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 21:36	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 21:36	1
Methyl tert-butyl ether	**9.73**		0.500		ug/L			02/25/16 21:36	1
Naphthalene	ND		5.00		ug/L			02/25/16 21:36	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 21:36	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
Styrene	ND		0.500		ug/L			02/25/16 21:36	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 21:36	1
tert-Butyl alcohol	**33.4**		10.0		ug/L			02/25/16 21:36	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 21:36	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 21:36	1

Client Sample Results

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

TestAmerica Job ID: 490-97605-1

Client Sample ID: 2610BR

Date Collected: 02/11/16 12:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-1

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			02/25/16 21:36	1
Toluene	ND		0.500		ug/L			02/25/16 21:36	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 21:36	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 21:36	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 21:36	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 21:36	1
Trichloroethene	ND		0.500		ug/L			02/25/16 21:36	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 21:36	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 21:36	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 21:36	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 21:36	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 21:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*		*02/25/16 21:36*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*02/25/16 21:36*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*02/25/16 21:36*	*1*
Toluene-d8 (Surr)	*110*		*70 - 130*		*02/25/16 21:36*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-97605-1

Client Sample ID: Trip Blank

Date Collected: 02/11/16 00:01
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-2

Matrix: 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			02/25/16 18:38	1
Bromobenzene	ND		0.500		ug/L			02/25/16 18:38	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 18:38	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 18:38	1
Bromoform	ND	*	0.500		ug/L			02/25/16 18:38	1
Bromomethane	ND	*	0.500		ug/L			02/25/16 18:38	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 18:38	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 18:38	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 18:38	1
Chloroethane	ND		0.500		ug/L			02/25/16 18:38	1
Chloroform	**4.08**		0.500		ug/L			02/25/16 18:38	1
Chloromethane	ND		0.500		ug/L			02/25/16 18:38	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 18:38	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 18:38	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 18:38	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 18:38	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 18:38	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 18:38	1
Dibromomethane	ND		0.500		ug/L			02/25/16 18:38	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 18:38	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 18:38	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 18:38	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 18:38	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 18:38	1
1,3-Dichloropropane	ND	*	0.500		ug/L			02/25/16 18:38	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 18:38	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 18:38	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 18:38	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 18:38	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 18:38	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 18:38	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 18:38	1
Naphthalene	ND		5.00		ug/L			02/25/16 18:38	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 18:38	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
Styrene	ND		0.500		ug/L			02/25/16 18:38	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 18:38	1
tert-Butyl alcohol	ND		10.0		ug/L			02/25/16 18:38	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 18:38	1
1,1,2,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 18:38	1

Client Sample Results

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

TestAmerica Job ID: 490-97605-1

Client Sample ID: Trip Blank

Date Collected: 02/11/16 00:01
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-2

Matrix: 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			02/25/16 18:38	1
Toluene	ND		0.500		ug/L			02/25/16 18:38	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 18:38	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 18:38	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 18:38	1
1,1,2-Trichloroethane	ND	*	0.500		ug/L			02/25/16 18:38	1
Trichloroethene	ND		0.500		ug/L			02/25/16 18:38	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 18:38	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 18:38	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 18:38	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 18:38	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 18:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/25/16 18:38*	*1*
Dibromofluoromethane (Surr)	*105*		*70 - 130*		*02/25/16 18:38*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*02/25/16 18:38*	*1*
Toluene-d8 (Surr)	*113*		*70 - 130*		*02/25/16 18:38*	*1*

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

Lab Sample ID: MB 490-319803/6
Matrix: Water
Analysis Batch: 319803

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			02/25/16 17:58	1
Bromobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Bromochloromethane	ND		0.500		ug/L			02/25/16 17:58	1
Bromodichloromethane	ND		0.500		ug/L			02/25/16 17:58	1
Bromoform	ND		0.500		ug/L			02/25/16 17:58	1
Bromomethane	ND		0.500		ug/L			02/25/16 17:58	1
Carbon disulfide	ND		0.500		ug/L			02/25/16 17:58	1
Carbon tetrachloride	ND		0.500		ug/L			02/25/16 17:58	1
Chlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Chlorodibromomethane	ND		0.500		ug/L			02/25/16 17:58	1
Chloroethane	ND		0.500		ug/L			02/25/16 17:58	1
Chloroform	ND		0.500		ug/L			02/25/16 17:58	1
Chloromethane	ND		0.500		ug/L			02/25/16 17:58	1
2-Chlorotoluene	ND		0.500		ug/L			02/25/16 17:58	1
4-Chlorotoluene	ND		0.500		ug/L			02/25/16 17:58	1
cis-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
cis-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dibromo-3-Chloropropane	ND		2.00		ug/L			02/25/16 17:58	1
1,2-Dibromoethane (EDB)	ND		0.500		ug/L			02/25/16 17:58	1
Dibromomethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,3-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,4-Dichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
Dichlorodifluoromethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
1,2-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,3-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
2,2-Dichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,1-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
Diisopropyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Ethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Ethyl tert-butyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Hexachlorobutadiene	ND		0.500		ug/L			02/25/16 17:58	1
Isopropylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 17:58	1
Methyl tert-butyl ether	ND		0.500		ug/L			02/25/16 17:58	1
Naphthalene	ND		5.00		ug/L			02/25/16 17:58	1
n-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
N-Propylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
p-Isopropyltoluene	ND		0.500		ug/L			02/25/16 17:58	1
sec-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Styrene	ND		0.500		ug/L			02/25/16 17:58	1
Tert-amyl methyl ether	ND		0.500		ug/L			02/25/16 17:58	1
tert-Butyl alcohol	ND		10.0		ug/L			02/25/16 17:58	1
tert-Butylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,1,1,2-Tetrachloroethane	ND		0.500		ug/L			02/25/16 17:58	1

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

Lab Sample ID: MB 490-319803/6
Matrix: Water
Analysis Batch: 319803

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			02/25/16 17:58	1
Tetrachloroethene	ND		0.500		ug/L			02/25/16 17:58	1
Toluene	ND		0.500		ug/L			02/25/16 17:58	1
trans-1,2-Dichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
trans-1,3-Dichloropropene	ND		0.500		ug/L			02/25/16 17:58	1
1,2,3-Trichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,2,4-Trichlorobenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,1,1-Trichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
1,1,2-Trichloroethane	ND		0.500		ug/L			02/25/16 17:58	1
Trichloroethene	ND		0.500		ug/L			02/25/16 17:58	1
Trichlorofluoromethane	ND		0.500		ug/L			02/25/16 17:58	1
1,2,3-Trichloropropane	ND		0.500		ug/L			02/25/16 17:58	1
1,2,4-Trimethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
1,3,5-Trimethylbenzene	ND		0.500		ug/L			02/25/16 17:58	1
Vinyl chloride	ND		0.500		ug/L			02/25/16 17:58	1
Xylenes, Total	ND		1.00		ug/L			02/25/16 17:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*		*02/25/16 17:58*	*1*
Dibromofluoromethane (Surr)	*104*		*70 - 130*		*02/25/16 17:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 130*		*02/25/16 17:58*	*1*
Toluene-d8 (Surr)	*109*		*70 - 130*		*02/25/16 17:58*	*1*

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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	4.896		ug/L		98	70 - 130
Bromobenzene	5.00	4.426		ug/L		89	70 - 130
Bromochloromethane	5.00	5.079		ug/L		102	70 - 130
Bromodichloromethane	5.00	4.239		ug/L		85	70 - 130
Bromoform	5.00	3.439	*	ug/L		69	70 - 130
Bromomethane	5.00	7.161	*	ug/L		143	70 - 130
Carbon disulfide	5.00	4.187		ug/L		84	70 - 130
Carbon tetrachloride	5.00	4.080		ug/L		82	70 - 130
Chlorobenzene	5.00	4.937		ug/L		99	70 - 130
Chlorodibromomethane	5.00	3.698		ug/L		74	70 - 130
Chloroethane	5.00	5.051		ug/L		101	70 - 130
Chloroform	5.00	4.849		ug/L		97	70 - 130
Chloromethane	5.00	4.608		ug/L		92	70 - 130
2-Chlorotoluene	5.00	4.454		ug/L		89	70 - 130
4-Chlorotoluene	5.00	4.085		ug/L		82	70 - 130
cis-1,2-Dichloroethene	5.00	4.765		ug/L		95	70 - 130
cis-1,3-Dichloropropene	5.00	5.591		ug/L		112	70 - 130
1,2-Dibromo-3-Chloropropane	5.00	3.662		ug/L		73	70 - 130
1,2-Dibromoethane (EDB)	5.00	4.689		ug/L		94	70 - 130
Dibromomethane	5.00	4.640		ug/L		93	70 - 130

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

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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	4.444		ug/L		89	70 - 130
1,3-Dichlorobenzene	5.00	4.262		ug/L		85	70 - 130
1,4-Dichlorobenzene	5.00	4.608		ug/L		92	70 - 130
Dichlorodifluoromethane	5.00	3.533		ug/L		71	70 - 130
1,1-Dichloroethane	5.00	4.803		ug/L		96	70 - 130
1,2-Dichloroethane	5.00	5.118		ug/L		102	70 - 130
1,1-Dichloroethene	5.00	4.407		ug/L		88	70 - 130
1,2-Dichloropropane	5.00	4.851		ug/L		97	70 - 130
1,3-Dichloropropane	5.00	7.484	*	ug/L		150	70 - 130
2,2-Dichloropropane	5.00	4.088		ug/L		82	70 - 130
1,1-Dichloropropene	5.00	4.584		ug/L		92	70 - 130
Diisopropyl ether	5.00	4.923		ug/L		98	70 - 130
Ethylbenzene	5.00	4.579		ug/L		92	70 - 130
Ethyl tert-butyl ether	5.00	4.639		ug/L		93	70 - 130
Hexachlorobutadiene	5.00	4.147		ug/L		83	70 - 130
Isopropylbenzene	5.00	4.452		ug/L		89	70 - 130
Methylene Chloride	5.00	3.604	J	ug/L		72	70 - 130
Methyl tert-butyl ether	5.00	4.566		ug/L		91	70 - 130
Naphthalene	5.00	3.562	J	ug/L		71	70 - 130
n-Butylbenzene	5.00	4.183		ug/L		84	70 - 130
N-Propylbenzene	5.00	4.173		ug/L		83	70 - 130
p-Isopropyltoluene	5.00	4.139		ug/L		83	70 - 130
sec-Butylbenzene	5.00	4.124		ug/L		82	70 - 130
Styrene	5.00	4.579		ug/L		92	70 - 130
Tert-amyl methyl ether	5.00	4.623		ug/L		92	70 - 130
tert-Butyl alcohol	50.0	58.78		ug/L		118	70 - 130
tert-Butylbenzene	5.00	4.078		ug/L		82	70 - 130
1,1,1,2-Tetrachloroethane	5.00	4.156		ug/L		83	70 - 130
1,1,2,2-Tetrachloroethane	5.00	4.353		ug/L		87	70 - 130
Tetrachloroethene	5.00	7.038	*	ug/L		141	70 - 130
Toluene	5.00	6.363		ug/L		127	70 - 130
trans-1,2-Dichloroethene	5.00	4.644		ug/L		93	70 - 130
trans-1,3-Dichloropropene	5.00	4.874		ug/L		97	70 - 130
1,2,3-Trichlorobenzene	5.00	4.006		ug/L		80	70 - 130
1,2,4-Trichlorobenzene	5.00	4.172		ug/L		83	70 - 130
1,1,1-Trichloroethane	5.00	4.371		ug/L		87	70 - 130
1,1,2-Trichloroethane	5.00	6.456		ug/L		129	70 - 130
Trichloroethene	5.00	4.873		ug/L		97	70 - 130
Trichlorofluoromethane	5.00	4.462		ug/L		89	70 - 130
1,2,3-Trichloropropane	5.00	4.464		ug/L		89	70 - 130
1,2,4-Trimethylbenzene	5.00	4.098		ug/L		82	70 - 130
1,3,5-Trimethylbenzene	5.00	4.141		ug/L		83	70 - 130
Vinyl chloride	5.00	4.327		ug/L		87	70 - 130
Xylenes, Total	10.0	8.854		ug/L		89	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*

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

Lab Sample ID: LCS 490-319803/3
Matrix: Water
Analysis Batch: 319803

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

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*
Toluene-d8 (Surr)	*111*		*70 - 130*

Lab Sample ID: LCSD 490-319803/4
Matrix: Water
Analysis Batch: 319803

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	4.812		ug/L		96	70 - 130	2	20
Bromobenzene	5.00	4.395		ug/L		88	70 - 130	1	20
Bromochloromethane	5.00	5.061		ug/L		101	70 - 130	0	20
Bromodichloromethane	5.00	4.249		ug/L		85	70 - 130	0	20
Bromoform	5.00	3.647		ug/L		73	70 - 130	6	20
Bromomethane	5.00	6.853	*	ug/L		137	70 - 130	4	20
Carbon disulfide	5.00	4.117		ug/L		82	70 - 130	2	20
Carbon tetrachloride	5.00	3.989		ug/L		80	70 - 130	2	20
Chlorobenzene	5.00	5.054		ug/L		101	70 - 130	2	20
Chlorodibromomethane	5.00	3.484		ug/L		70	70 - 130	6	20
Chloroethane	5.00	4.381		ug/L		88	70 - 130	14	20
Chloroform	5.00	4.600		ug/L		92	70 - 130	5	20
Chloromethane	5.00	4.792		ug/L		96	70 - 130	4	20
2-Chlorotoluene	5.00	4.559		ug/L		91	70 - 130	2	20
4-Chlorotoluene	5.00	4.130		ug/L		83	70 - 130	1	20
cis-1,2-Dichloroethene	5.00	4.640		ug/L		93	70 - 130	3	20
cis-1,3-Dichloropropene	5.00	5.471		ug/L		109	70 - 130	2	20
1,2-Dibromo-3-Chloropropane	5.00	4.076		ug/L		82	70 - 130	11	20
1,2-Dibromoethane (EDB)	5.00	5.063		ug/L		101	70 - 130	8	20
Dibromomethane	5.00	4.810		ug/L		96	70 - 130	4	20
1,2-Dichlorobenzene	5.00	4.521		ug/L		90	70 - 130	2	20
1,3-Dichlorobenzene	5.00	4.614		ug/L		92	70 - 130	8	20
1,4-Dichlorobenzene	5.00	4.408		ug/L		88	70 - 130	4	20
Dichlorodifluoromethane	5.00	3.586		ug/L		72	70 - 130	2	20
1,1-Dichloroethane	5.00	4.670		ug/L		93	70 - 130	3	20
1,2-Dichloroethane	5.00	5.126		ug/L		103	70 - 130	0	20
1,1-Dichloroethene	5.00	4.318		ug/L		86	70 - 130	2	20
1,2-Dichloropropane	5.00	4.870		ug/L		97	70 - 130	0	20
1,3-Dichloropropane	5.00	7.512	*	ug/L		150	70 - 130	0	20
2,2-Dichloropropane	5.00	3.995		ug/L		80	70 - 130	2	20
1,1-Dichloropropene	5.00	4.689		ug/L		94	70 - 130	2	20
Diisopropyl ether	5.00	4.955		ug/L		99	70 - 130	1	20
Ethylbenzene	5.00	4.556		ug/L		91	70 - 130	0	20
Ethyl tert-butyl ether	5.00	4.628		ug/L		93	70 - 130	0	20
Hexachlorobutadiene	5.00	4.294		ug/L		86	70 - 130	3	20
Isopropylbenzene	5.00	4.336		ug/L		87	70 - 130	3	20
Methylene Chloride	5.00	3.995	J	ug/L		80	70 - 130	10	20
Methyl tert-butyl ether	5.00	4.590		ug/L		92	70 - 130	1	20
Naphthalene	5.00	4.131	J	ug/L		83	70 - 130	15	20
n-Butylbenzene	5.00	4.042		ug/L		81	70 - 130	3	20

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

Lab Sample ID: LCSD 490-319803/4
Matrix: Water
Analysis Batch: 319803

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	4.251		ug/L		85	70 - 130	2	20
p-Isopropyltoluene			5.00	4.495		ug/L		90	70 - 130	8	20
sec-Butylbenzene			5.00	4.137		ug/L		83	70 - 130	0	20
Styrene			5.00	4.603		ug/L		92	70 - 130	1	20
Tert-amyl methyl ether			5.00	4.594		ug/L		92	70 - 130	1	20
tert-Butyl alcohol			50.0	63.87		ug/L		128	70 - 130	8	20
tert-Butylbenzene			5.00	4.220		ug/L		84	70 - 130	3	20
1,1,1,2-Tetrachloroethane			5.00	4.279		ug/L		86	70 - 130	3	20
1,1,2,2-Tetrachloroethane			5.00	4.330		ug/L		87	70 - 130	1	20
Tetrachloroethene			5.00	6.690	*	ug/L		134	70 - 130	5	20
Toluene			5.00	6.183		ug/L		124	70 - 130	3	20
trans-1,2-Dichloroethene			5.00	4.681		ug/L		94	70 - 130	1	20
trans-1,3-Dichloropropene			5.00	5.165		ug/L		103	70 - 130	6	20
1,2,3-Trichlorobenzene			5.00	4.195		ug/L		84	70 - 130	5	20
1,2,4-Trichlorobenzene			5.00	4.424		ug/L		88	70 - 130	6	20
1,1,1-Trichloroethane			5.00	4.268		ug/L		85	70 - 130	2	20
1,1,2-Trichloroethane			5.00	6.710	*	ug/L		134	70 - 130	4	20
Trichloroethene			5.00	4.830		ug/L		97	70 - 130	1	20
Trichlorofluoromethane			5.00	4.490		ug/L		90	70 - 130	1	20
1,2,3-Trichloropropane			5.00	4.745		ug/L		95	70 - 130	6	20
1,2,4-Trimethylbenzene			5.00	4.307		ug/L		86	70 - 130	5	20
1,3,5-Trimethylbenzene			5.00	4.179		ug/L		84	70 - 130	1	20
Vinyl chloride			5.00	4.795		ug/L		96	70 - 130	10	20
Xylenes, Total			10.0	8.611		ug/L		86	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
Dibromofluoromethane (Surr)	*103*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*104*		*70 - 130*
Toluene-d8 (Surr)	*109*		*70 - 130*

QC Association Summary

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

TestAmerica Job ID: 490-97605-1

GC/MS VOA

Analysis Batch: 319803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97605-1	2610BR	Total/NA	Drinking Water	524.2	
490-97605-2	Trip Blank	Total/NA	Water	524.2	
LCS 490-319803/3	Lab Control Sample	Total/NA	Water	524.2	
LCSD 490-319803/4	Lab Control Sample Dup	Total/NA	Water	524.2	
MB 490-319803/6	Method Blank	Total/NA	Water	524.2	

Lab Chronicle

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

TestAmerica Job ID: 490-97605-1

Client Sample ID: 2610BR

Date Collected: 02/11/16 12:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-1

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	319803	02/25/16 21:36	JJR	TAL NSH

Client Sample ID: Trip Blank

Date Collected: 02/11/16 00:01
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97605-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	524.2		1	10 mL	10 mL	319803	02/25/16 18:38	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, MD

TestAmerica Job ID: 490-97605-1

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, MD

TestAmerica Job ID: 490-97605-1

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	03-31-17

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
524.2		Water	1,1,1,2-Tetrachloroethane
524.2		Water	1,1,2,2-Tetrachloroethane
524.2		Water	1,1-Dichloroethane
524.2		Water	1,1-Dichloropropene
524.2		Water	1,2,3-Trichlorobenzene
524.2		Water	1,2,3-Trichloropropane
524.2		Water	1,2,4-Trimethylbenzene

Certification Summary

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

TestAmerica Job ID: 490-97605-1

Laboratory: TestAmerica Nashville (Continued)

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	03-31-17

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

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Nashville, TN

COOLER RECEIPT FORM

490-97605 Chain of Custody

Cooler Received/Opened On 2-17-16@ 0945

Time Samples Removed From Cooler 12:44 Time Samples Placed In Storage 1346 (2 Hour Window)

1. Tracking # 8489 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18290455~~ 17960357 mm 2-11-16 pH Strip Lot ~~HC554012~~ HC559158 mm 2-11-16 Chlorine Strip Lot 072315A

2. Temperature of rep. sample or temp blank when opened: 2.7 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 1 back

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) TH

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 #_____

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

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) GLW

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) GLW

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

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

Revised 12/15/15

Loc: 490
97605

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

Pg 1 of 1

Consultant Name: Arcadis U.S. Inc
Address: ~~4144 Benfield Blvd., Suite A~~ 801 Corporate Center Drive Suite 300
City/State/Zip: ~~Millersville, MD 21108~~ Raleigh, NC 27607
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: ~~410-923-7813~~ 919.415.2327 Fax No.:
Sampler Name: (Print) W.K. Carr
Sampler Signature: W.K. Carr

TA PROJECT #: 49001445
Invoice To: Arcadis U.S. Inc.
Report To: Hillary Goodell
PO #: B0085851.0010
PROJECT #: 14489
Facility ID #
Site Address 261 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 (Blank Label)	Matrix: Groundwater	Wastewater	Drinking Water	Sludge	Soil	Other (specify):	Analyze For: 524.2 VOCs + Full Oxygenates	Trip Blank - 8260 VOC	RUSH TAT (Pre-Schedule) *	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
261 OBR	02-11-16	1245	3	✓					✓												✓			10 Day		5/11/2016
Trip Blank (lab supplied)	–	–	1	✓					✓													✓				

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
W.K. Carr	02-15-16	1600	~~W.K. Carr~~ FEDEX 863832588489	02-15-16	1600
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[signature]	2/17/16	~~0944~~ 0946

* 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: _____

BS 2/19/16

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-97605-1

Login Number: 97605
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	3.7
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	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	

APPENDIX B

Laboratory Analytical Report and Chain-of-Custody - March 16, 2016

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: 490-97587-1
Client Project/Site: 14489 - North East
Sampling Event: XOM #14489 - North East, MD_ GW wells
Revision: 1

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

Attn: Paul Goodell

Jennifer Huckaba

Authorized for release by:
3/23/2016 11:07:14 AM

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: 490-97587-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
490-97587-1	MW-5A	Ground Water	02/10/16 11:45	02/17/16 09:45
490-97587-2	MW-10	Ground Water	02/10/16 13:15	02/17/16 09:45
490-97587-3	MW-12	Ground Water	02/10/16 14:35	02/17/16 09:45
490-97587-4	MW-1A	Ground Water	02/10/16 16:05	02/17/16 09:45
490-97587-5	MW-11	Ground Water	02/10/16 17:45	02/17/16 09:45
490-97587-6	DUP01	Ground Water	02/10/16 12:00	02/17/16 09:45
490-97587-7	MW-13	Ground Water	02/11/16 09:15	02/17/16 09:45
490-97587-8	MW-14	Ground Water	02/11/16 10:35	02/17/16 09:45
490-97587-9	MW-15	Ground Water	02/11/16 11:25	02/17/16 09:45
490-97587-10	MW-16	Ground Water	02/11/16 14:05	02/17/16 09:45
490-97587-12	MW-2A	Ground Water	02/11/16 16:50	02/17/16 09:45
490-97587-14	MW-3A	Ground Water	02/11/16 16:30	02/17/16 09:45
490-97587-16	MW-8	Ground Water	02/12/16 08:45	02/17/16 09:45
490-97587-17	Rinse Blank	Water	02/12/16 10:10	02/17/16 09:45
490-97587-18	Trip Blank	Water	02/12/16 01:00	02/17/16 09:45

Job ID: 490-97587-1

Laboratory: TestAmerica Nashville

Narrative

Job Narrative
490-97587-1

Revised Report
This is a revised report to remove samples that were requested on the COC, per client request: INJ-1 (490-97587-11), INJ-3 (490-97587-13) & INJ-2 (490-97587-15). This report replaces the final that was generated on 3/16/16 at 1035.

Receipt
The samples were received on 2/17/2016 9:45 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.2º C and 0.2º C.

GC/MS VOA
Method(s) 8260B: The following samples were diluted to bring the concentration of target analytes within the calibration range: MW-5A (490-97587-1), MW-1A (490-97587-4) and DUP01 (490-97587-6) and MW-2A (490-97587-12). Elevated reporting limits (RLs) are provided.

Method(s) 8260B: The continuing calibration verification (CCV) analyzed in batch 460-352426 was outside the method criteria for the following analyte(s): 1,1-Dichloroethene and Bromomethane. A CCV standard at or below the reporting limit (RL) was analyzed with the affected samples and found to be acceptable. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 460-352426 recovered outside control limits for the following analyte: Methylene Chloride. The associated sample results have been flagged and 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 matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 490-322270 were outside control limits. The associated laboratory control sample and laboratory control sample duplicate (LCS/LCSD) recoveries were within acceptance limits.

Method(s) 9056A: Reanalysis of the following samples was performed outside of the analytical holding time due to over-dilution : MW-5A (490-97587-1) and MW-10 (490-97587-2).

Method(s) 9056, 9056A: The following samples were diluted due to the nature of the sample matrix: (490-97601-G-4), (490-97601-G-4 MS) and (490-97601-G-4 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 9056, 9056A: The method blank as well as the continuing calibration blank for batch 323213 contained chloride above the method detection limit (MDL). Associated samples were not re-analyzed because results were greater than 10X the value found in the method blank.

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: The matrix spike duplicate (MSD) recovery for analytical batch 490-319949 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.

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

TestAmerica Job ID: 490-97587-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
F1	MS and/or MSD Recovery is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time

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: 490-97587-1

Client Sample ID: MW-5A

Date Collected: 02/10/16 11:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-1

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		125		ug/L			02/24/16 20:05	5
Benzene	**5.47**		5.00		ug/L			02/24/16 20:05	5
Bromobenzene	ND		5.00		ug/L			02/24/16 20:05	5
Bromochloromethane	ND		5.00		ug/L			02/24/16 20:05	5
Bromodichloromethane	ND		5.00		ug/L			02/24/16 20:05	5
Bromoform	ND		5.00		ug/L			02/24/16 20:05	5
Bromomethane	ND		5.00		ug/L			02/24/16 20:05	5
2-Butanone (MEK)	ND		25.0		ug/L			02/24/16 20:05	5
Carbon disulfide	ND		5.00		ug/L			02/24/16 20:05	5
Carbon tetrachloride	ND		5.00		ug/L			02/24/16 20:05	5
Chlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
Chlorodibromomethane	ND		5.00		ug/L			02/24/16 20:05	5
Chloroethane	ND		5.00		ug/L			02/24/16 20:05	5
Chloroform	ND		5.00		ug/L			02/24/16 20:05	5
Chloromethane	ND		5.00		ug/L			02/24/16 20:05	5
2-Chlorotoluene	ND		5.00		ug/L			02/24/16 20:05	5
4-Chlorotoluene	ND		5.00		ug/L			02/24/16 20:05	5
cis-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 20:05	5
cis-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 20:05	5
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			02/24/16 20:05	5
1,2-Dibromoethane (EDB)	ND		5.00		ug/L			02/24/16 20:05	5
Dibromomethane	ND		5.00		ug/L			02/24/16 20:05	5
1,2-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
1,3-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
1,4-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
Dichlorodifluoromethane	ND		5.00		ug/L			02/24/16 20:05	5
1,1-Dichloroethane	ND		5.00		ug/L			02/24/16 20:05	5
1,2-Dichloroethane	ND		5.00		ug/L			02/24/16 20:05	5
1,1-Dichloroethene	ND		5.00		ug/L			02/24/16 20:05	5
1,2-Dichloropropane	ND		5.00		ug/L			02/24/16 20:05	5
1,3-Dichloropropane	ND		5.00		ug/L			02/24/16 20:05	5
2,2-Dichloropropane	ND		5.00		ug/L			02/24/16 20:05	5
1,1-Dichloropropene	ND		5.00		ug/L			02/24/16 20:05	5
Diisopropyl ether	ND		5.00		ug/L			02/24/16 20:05	5
Ethylbenzene	**270**		5.00		ug/L			02/24/16 20:05	5
Ethyl tert-butyl ether	ND		5.00		ug/L			02/24/16 20:05	5
Hexachlorobutadiene	ND		5.00		ug/L			02/24/16 20:05	5
2-Hexanone	ND		25.0		ug/L			02/24/16 20:05	5
Isopropylbenzene	**31.7**		5.00		ug/L			02/24/16 20:05	5
Methylene Chloride	ND		25.0		ug/L			02/24/16 20:05	5
4-Methyl-2-pentanone (MIBK)	ND		25.0		ug/L			02/24/16 20:05	5
Methyl tert-butyl ether	ND		5.00		ug/L			02/24/16 20:05	5
Naphthalene	**111**		5.00		ug/L			02/24/16 20:05	5
n-Butylbenzene	ND		5.00		ug/L			02/24/16 20:05	5
N-Propylbenzene	**72.9**		5.00		ug/L			02/24/16 20:05	5
p-Isopropyltoluene	**5.05**		5.00		ug/L			02/24/16 20:05	5
sec-Butylbenzene	**6.98**		5.00		ug/L			02/24/16 20:05	5
Styrene	ND		5.00		ug/L			02/24/16 20:05	5
Tert-amyl methyl ether	ND		5.00		ug/L			02/24/16 20:05	5

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-5A

Date Collected: 02/10/16 11:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-1

Matrix: Ground 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		50.0		ug/L			02/24/16 20:05	5
tert-Butylbenzene	ND		5.00		ug/L			02/24/16 20:05	5
1,1,1,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 20:05	5
1,1,2,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 20:05	5
Tetrachloroethene	ND		5.00		ug/L			02/24/16 20:05	5
Toluene	**53.4**		5.00		ug/L			02/24/16 20:05	5
trans-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 20:05	5
trans-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 20:05	5
1,2,3-Trichlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
1,2,4-Trichlorobenzene	ND		5.00		ug/L			02/24/16 20:05	5
1,1,1-Trichloroethane	ND		5.00		ug/L			02/24/16 20:05	5
1,1,2-Trichloroethane	ND		5.00		ug/L			02/24/16 20:05	5
Trichloroethene	ND		5.00		ug/L			02/24/16 20:05	5
Trichlorofluoromethane	ND		5.00		ug/L			02/24/16 20:05	5
1,2,3-Trichloropropane	ND		5.00		ug/L			02/24/16 20:05	5
1,2,4-Trimethylbenzene	**679**		5.00		ug/L			02/24/16 20:05	5
1,3,5-Trimethylbenzene	**160**		5.00		ug/L			02/24/16 20:05	5
Vinyl chloride	ND		5.00		ug/L			02/24/16 20:05	5
Xylenes, Total	**999**		10.0		ug/L			02/24/16 20:05	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*90*		*72 - 136*		*02/24/16 20:05*	*5*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 137*		*02/24/16 20:05*	*5*
Toluene-d8 (Surr)	*94*		*74 - 120*		*02/24/16 20:05*	*5*
Bromofluorobenzene	*106*		*70 - 131*		*02/24/16 20:05*	*5*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**9.25**	**H**	1.00		mg/L			03/11/16 06:37	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**16.3**		0.100		mg/L		02/17/16 14:24	02/18/16 15:59	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**14.3**		0.100		mg/L		02/18/16 14:59	02/19/16 18:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-10

Date Collected: 02/10/16 13:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-2

Matrix: Ground 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			02/24/16 04:00	1
Benzene	ND		1.00		ug/L			02/24/16 04:00	1
Bromobenzene	ND		1.00		ug/L			02/24/16 04:00	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 04:00	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 04:00	1
Bromoform	ND		1.00		ug/L			02/24/16 04:00	1
Bromomethane	ND		1.00		ug/L			02/24/16 04:00	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 04:00	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 04:00	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 04:00	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 04:00	1
Chloroethane	ND		1.00		ug/L			02/24/16 04:00	1
Chloroform	ND		1.00		ug/L			02/24/16 04:00	1
Chloromethane	ND		1.00		ug/L			02/24/16 04:00	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:00	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:00	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:00	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:00	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 04:00	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 04:00	1
Dibromomethane	ND		1.00		ug/L			02/24/16 04:00	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 04:00	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 04:00	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 04:00	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 04:00	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:00	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 04:00	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:00	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 04:00	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 04:00	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 04:00	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 04:00	1
2-Hexanone	ND		5.00		ug/L			02/24/16 04:00	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 04:00	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 04:00	1
Methyl tert-butyl ether	**23.0**		1.00		ug/L			02/24/16 04:00	1
Naphthalene	ND		1.00		ug/L			02/24/16 04:00	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 04:00	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
Styrene	ND		1.00		ug/L			02/24/16 04:00	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 04:00	1

Client Sample ID: MW-10
Date Collected: 02/10/16 13:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-2
Matrix: Ground 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			02/24/16 04:00	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:00	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:00	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 04:00	1
Toluene	ND		1.00		ug/L			02/24/16 04:00	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:00	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:00	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 04:00	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 04:00	1
Trichloroethene	ND		1.00		ug/L			02/24/16 04:00	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 04:00	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 04:00	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:00	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 04:00	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 04:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*97*		*72 - 136*		*02/24/16 04:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*70 - 137*		*02/24/16 04:00*	*1*
Toluene-d8 (Surr)	*99*		*74 - 120*		*02/24/16 04:00*	*1*
Bromofluorobenzene	*109*		*70 - 131*		*02/24/16 04:00*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**17.5**	**H**	1.00		mg/L			03/11/16 07:35	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.44**		0.100		mg/L		02/17/16 14:24	02/18/16 16:04	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 14:59	02/19/16 19:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.103**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-12

Date Collected: 02/10/16 14:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-3

Matrix: Ground 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			02/24/16 04:27	1
Benzene	ND		1.00		ug/L			02/24/16 04:27	1
Bromobenzene	ND		1.00		ug/L			02/24/16 04:27	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 04:27	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 04:27	1
Bromoform	ND		1.00		ug/L			02/24/16 04:27	1
Bromomethane	ND		1.00		ug/L			02/24/16 04:27	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 04:27	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 04:27	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 04:27	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 04:27	1
Chloroethane	ND		1.00		ug/L			02/24/16 04:27	1
Chloroform	ND		1.00		ug/L			02/24/16 04:27	1
Chloromethane	ND		1.00		ug/L			02/24/16 04:27	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:27	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:27	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:27	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:27	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 04:27	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 04:27	1
Dibromomethane	ND		1.00		ug/L			02/24/16 04:27	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 04:27	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 04:27	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 04:27	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 04:27	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:27	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 04:27	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:27	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 04:27	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 04:27	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 04:27	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 04:27	1
2-Hexanone	ND		5.00		ug/L			02/24/16 04:27	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 04:27	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 04:27	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 04:27	1
Naphthalene	ND		1.00		ug/L			02/24/16 04:27	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 04:27	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
Styrene	ND		1.00		ug/L			02/24/16 04:27	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 04:27	1

Client Sample ID: MW-12

Date Collected: 02/10/16 14:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-3

Matrix: Ground 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			02/24/16 04:27	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:27	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:27	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 04:27	1
Toluene	ND		1.00		ug/L			02/24/16 04:27	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:27	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:27	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 04:27	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 04:27	1
Trichloroethene	ND		1.00		ug/L			02/24/16 04:27	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 04:27	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 04:27	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:27	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 04:27	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 04:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*82*		*72 - 136*		*02/24/16 04:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*84*		*70 - 137*		*02/24/16 04:27*	*1*
Toluene-d8 (Surr)	*86*		*74 - 120*		*02/24/16 04:27*	*1*
Bromofluorobenzene	*93*		*70 - 131*		*02/24/16 04:27*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**7.00**		1.00		mg/L			03/08/16 09:21	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.81**		0.100		mg/L		02/17/16 14:24	02/18/16 16:08	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.367**		0.100		mg/L		02/18/16 14:59	02/19/16 19:05	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**1.16**		0.100		mg/L			02/25/16 16:19	1

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-1A

Date Collected: 02/10/16 16:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-4

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		125		ug/L			02/24/16 19:38	5
Benzene	**20.9**		5.00		ug/L			02/24/16 19:38	5
Bromobenzene	ND		5.00		ug/L			02/24/16 19:38	5
Bromochloromethane	ND		5.00		ug/L			02/24/16 19:38	5
Bromodichloromethane	ND		5.00		ug/L			02/24/16 19:38	5
Bromoform	ND		5.00		ug/L			02/24/16 19:38	5
Bromomethane	ND		5.00		ug/L			02/24/16 19:38	5
2-Butanone (MEK)	ND		25.0		ug/L			02/24/16 19:38	5
Carbon disulfide	ND		5.00		ug/L			02/24/16 19:38	5
Carbon tetrachloride	ND		5.00		ug/L			02/24/16 19:38	5
Chlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
Chlorodibromomethane	ND		5.00		ug/L			02/24/16 19:38	5
Chloroethane	ND		5.00		ug/L			02/24/16 19:38	5
Chloroform	ND		5.00		ug/L			02/24/16 19:38	5
Chloromethane	ND		5.00		ug/L			02/24/16 19:38	5
2-Chlorotoluene	ND		5.00		ug/L			02/24/16 19:38	5
4-Chlorotoluene	ND		5.00		ug/L			02/24/16 19:38	5
cis-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 19:38	5
cis-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 19:38	5
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			02/24/16 19:38	5
1,2-Dibromoethane (EDB)	ND		5.00		ug/L			02/24/16 19:38	5
Dibromomethane	ND		5.00		ug/L			02/24/16 19:38	5
1,2-Dichlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
1,3-Dichlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
1,4-Dichlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
Dichlorodifluoromethane	ND		5.00		ug/L			02/24/16 19:38	5
1,1-Dichloroethane	ND		5.00		ug/L			02/24/16 19:38	5
1,2-Dichloroethane	ND		5.00		ug/L			02/24/16 19:38	5
1,1-Dichloroethene	ND		5.00		ug/L			02/24/16 19:38	5
1,2-Dichloropropane	ND		5.00		ug/L			02/24/16 19:38	5
1,3-Dichloropropane	ND		5.00		ug/L			02/24/16 19:38	5
2,2-Dichloropropane	ND		5.00		ug/L			02/24/16 19:38	5
1,1-Dichloropropene	ND		5.00		ug/L			02/24/16 19:38	5
Diisopropyl ether	ND		5.00		ug/L			02/24/16 19:38	5
Ethylbenzene	**397**	**F1**	5.00		ug/L			02/24/16 19:38	5
Ethyl tert-butyl ether	ND		5.00		ug/L			02/24/16 19:38	5
Hexachlorobutadiene	ND		5.00		ug/L			02/24/16 19:38	5
2-Hexanone	ND		25.0		ug/L			02/24/16 19:38	5
Isopropylbenzene	**26.2**		5.00		ug/L			02/24/16 19:38	5
Methylene Chloride	ND		25.0		ug/L			02/24/16 19:38	5
4-Methyl-2-pentanone (MIBK)	ND		25.0		ug/L			02/24/16 19:38	5
Methyl tert-butyl ether	ND		5.00		ug/L			02/24/16 19:38	5
Naphthalene	**106**		5.00		ug/L			02/24/16 19:38	5
n-Butylbenzene	ND		5.00		ug/L			02/24/16 19:38	5
N-Propylbenzene	**49.2**		5.00		ug/L			02/24/16 19:38	5
p-Isopropyltoluene	ND		5.00		ug/L			02/24/16 19:38	5
sec-Butylbenzene	**5.14**		5.00		ug/L			02/24/16 19:38	5
Styrene	ND		5.00		ug/L			02/24/16 19:38	5
Tert-amyl methyl ether	ND		5.00		ug/L			02/24/16 19:38	5

Client Sample ID: MW-1A
Date Collected: 02/10/16 16:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-4
Matrix: Ground 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		50.0		ug/L			02/24/16 19:38	5
tert-Butylbenzene	ND		5.00		ug/L			02/24/16 19:38	5
1,1,1,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 19:38	5
1,1,2,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 19:38	5
Tetrachloroethene	ND		5.00		ug/L			02/24/16 19:38	5
Toluene	**633**	**F1**	5.00		ug/L			02/24/16 19:38	5
trans-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 19:38	5
trans-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 19:38	5
1,2,3-Trichlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
1,2,4-Trichlorobenzene	ND		5.00		ug/L			02/24/16 19:38	5
1,1,1-Trichloroethane	ND		5.00		ug/L			02/24/16 19:38	5
1,1,2-Trichloroethane	ND		5.00		ug/L			02/24/16 19:38	5
Trichloroethene	ND		5.00		ug/L			02/24/16 19:38	5
Trichlorofluoromethane	ND		5.00		ug/L			02/24/16 19:38	5
1,2,3-Trichloropropane	ND		5.00		ug/L			02/24/16 19:38	5
1,2,4-Trimethylbenzene	**719**	**F1**	5.00		ug/L			02/24/16 19:38	5
1,3,5-Trimethylbenzene	**209**		5.00		ug/L			02/24/16 19:38	5
Vinyl chloride	ND		5.00		ug/L			02/24/16 19:38	5
Xylenes, Total	**1650**		10.0		ug/L			02/24/16 19:38	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*89*		*72 - 136*		*02/24/16 19:38*	*5*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 137*		*02/24/16 19:38*	*5*
Toluene-d8 (Surr)	*94*		*74 - 120*		*02/24/16 19:38*	*5*
Bromofluorobenzene	*105*		*70 - 131*		*02/24/16 19:38*	*5*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1.24**		1.00		mg/L			03/08/16 09:43	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.64**		0.100		mg/L		02/17/16 14:24	02/18/16 16:12	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.21**		0.100		mg/L		02/18/16 14:59	02/19/16 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-11

Date Collected: 02/10/16 17:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-5

Matrix: Ground 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			02/24/16 04:55	1
Benzene	ND		1.00		ug/L			02/24/16 04:55	1
Bromobenzene	ND		1.00		ug/L			02/24/16 04:55	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 04:55	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 04:55	1
Bromoform	ND		1.00		ug/L			02/24/16 04:55	1
Bromomethane	ND		1.00		ug/L			02/24/16 04:55	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 04:55	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 04:55	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 04:55	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 04:55	1
Chloroethane	ND		1.00		ug/L			02/24/16 04:55	1
Chloroform	ND		1.00		ug/L			02/24/16 04:55	1
Chloromethane	ND		1.00		ug/L			02/24/16 04:55	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:55	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 04:55	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:55	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:55	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 04:55	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 04:55	1
Dibromomethane	ND		1.00		ug/L			02/24/16 04:55	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 04:55	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 04:55	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 04:55	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 04:55	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:55	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 04:55	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 04:55	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 04:55	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 04:55	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 04:55	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 04:55	1
2-Hexanone	ND		5.00		ug/L			02/24/16 04:55	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 04:55	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 04:55	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 04:55	1
Naphthalene	ND		1.00		ug/L			02/24/16 04:55	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 04:55	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
Styrene	ND		1.00		ug/L			02/24/16 04:55	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 04:55	1

Client Sample ID: MW-11

Date Collected: 02/10/16 17:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-5

Matrix: Ground 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			02/24/16 04:55	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:55	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 04:55	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 04:55	1
Toluene	ND		1.00		ug/L			02/24/16 04:55	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 04:55	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 04:55	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 04:55	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 04:55	1
Trichloroethene	ND		1.00		ug/L			02/24/16 04:55	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 04:55	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 04:55	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 04:55	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 04:55	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 04:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*92*		*72 - 136*		*02/24/16 04:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 137*		*02/24/16 04:55*	*1*
Toluene-d8 (Surr)	*96*		*74 - 120*		*02/24/16 04:55*	*1*
Bromofluorobenzene	*104*		*70 - 131*		*02/24/16 04:55*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**4.08**		1.00		mg/L			03/08/16 10:05	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**3.92**		0.100		mg/L		02/17/16 14:24	02/18/16 16:17	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.557**		0.100		mg/L		02/18/16 14:59	02/19/16 19:13	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**1.17**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: DUP01

Date Collected: 02/10/16 12:00
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-6

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		125		ug/L			02/24/16 20:33	5
Benzene	**20.7**		5.00		ug/L			02/24/16 20:33	5
Bromobenzene	ND		5.00		ug/L			02/24/16 20:33	5
Bromochloromethane	ND		5.00		ug/L			02/24/16 20:33	5
Bromodichloromethane	ND		5.00		ug/L			02/24/16 20:33	5
Bromoform	ND		5.00		ug/L			02/24/16 20:33	5
Bromomethane	ND		5.00		ug/L			02/24/16 20:33	5
2-Butanone (MEK)	ND		25.0		ug/L			02/24/16 20:33	5
Carbon disulfide	ND		5.00		ug/L			02/24/16 20:33	5
Carbon tetrachloride	ND		5.00		ug/L			02/24/16 20:33	5
Chlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
Chlorodibromomethane	ND		5.00		ug/L			02/24/16 20:33	5
Chloroethane	ND		5.00		ug/L			02/24/16 20:33	5
Chloroform	ND		5.00		ug/L			02/24/16 20:33	5
Chloromethane	ND		5.00		ug/L			02/24/16 20:33	5
2-Chlorotoluene	ND		5.00		ug/L			02/24/16 20:33	5
4-Chlorotoluene	ND		5.00		ug/L			02/24/16 20:33	5
cis-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 20:33	5
cis-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 20:33	5
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			02/24/16 20:33	5
1,2-Dibromoethane (EDB)	ND		5.00		ug/L			02/24/16 20:33	5
Dibromomethane	ND		5.00		ug/L			02/24/16 20:33	5
1,2-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
1,3-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
1,4-Dichlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
Dichlorodifluoromethane	ND		5.00		ug/L			02/24/16 20:33	5
1,1-Dichloroethane	ND		5.00		ug/L			02/24/16 20:33	5
1,2-Dichloroethane	ND		5.00		ug/L			02/24/16 20:33	5
1,1-Dichloroethene	ND		5.00		ug/L			02/24/16 20:33	5
1,2-Dichloropropane	ND		5.00		ug/L			02/24/16 20:33	5
1,3-Dichloropropane	ND		5.00		ug/L			02/24/16 20:33	5
2,2-Dichloropropane	ND		5.00		ug/L			02/24/16 20:33	5
1,1-Dichloropropene	ND		5.00		ug/L			02/24/16 20:33	5
Diisopropyl ether	ND		5.00		ug/L			02/24/16 20:33	5
Ethylbenzene	**387**		5.00		ug/L			02/24/16 20:33	5
Ethyl tert-butyl ether	ND		5.00		ug/L			02/24/16 20:33	5
Hexachlorobutadiene	ND		5.00		ug/L			02/24/16 20:33	5
2-Hexanone	ND		25.0		ug/L			02/24/16 20:33	5
Isopropylbenzene	**25.7**		5.00		ug/L			02/24/16 20:33	5
Methylene Chloride	ND		25.0		ug/L			02/24/16 20:33	5
4-Methyl-2-pentanone (MIBK)	ND		25.0		ug/L			02/24/16 20:33	5
Methyl tert-butyl ether	ND		5.00		ug/L			02/24/16 20:33	5
Naphthalene	**110**		5.00		ug/L			02/24/16 20:33	5
n-Butylbenzene	ND		5.00		ug/L			02/24/16 20:33	5
N-Propylbenzene	**47.8**		5.00		ug/L			02/24/16 20:33	5
p-Isopropyltoluene	ND		5.00		ug/L			02/24/16 20:33	5
sec-Butylbenzene	**5.06**		5.00		ug/L			02/24/16 20:33	5
Styrene	ND		5.00		ug/L			02/24/16 20:33	5
Tert-amyl methyl ether	ND		5.00		ug/L			02/24/16 20:33	5

Client Sample ID: DUP01

Date Collected: 02/10/16 12:00
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-6

Matrix: Ground 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		50.0		ug/L			02/24/16 20:33	5
tert-Butylbenzene	ND		5.00		ug/L			02/24/16 20:33	5
1,1,1,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 20:33	5
1,1,2,2-Tetrachloroethane	ND		5.00		ug/L			02/24/16 20:33	5
Tetrachloroethene	ND		5.00		ug/L			02/24/16 20:33	5
Toluene	**617**		5.00		ug/L			02/24/16 20:33	5
trans-1,2-Dichloroethene	ND		5.00		ug/L			02/24/16 20:33	5
trans-1,3-Dichloropropene	ND		5.00		ug/L			02/24/16 20:33	5
1,2,3-Trichlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
1,2,4-Trichlorobenzene	ND		5.00		ug/L			02/24/16 20:33	5
1,1,1-Trichloroethane	ND		5.00		ug/L			02/24/16 20:33	5
1,1,2-Trichloroethane	ND		5.00		ug/L			02/24/16 20:33	5
Trichloroethene	ND		5.00		ug/L			02/24/16 20:33	5
Trichlorofluoromethane	ND		5.00		ug/L			02/24/16 20:33	5
1,2,3-Trichloropropane	ND		5.00		ug/L			02/24/16 20:33	5
1,2,4-Trimethylbenzene	**704**		5.00		ug/L			02/24/16 20:33	5
1,3,5-Trimethylbenzene	**205**		5.00		ug/L			02/24/16 20:33	5
Vinyl chloride	ND		5.00		ug/L			02/24/16 20:33	5
Xylenes, Total	**1620**		10.0		ug/L			02/24/16 20:33	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*89*		*72 - 136*		*02/24/16 20:33*	*5*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 137*		*02/24/16 20:33*	*5*
Toluene-d8 (Surr)	*95*		*74 - 120*		*02/24/16 20:33*	*5*
Bromofluorobenzene	*105*		*70 - 131*		*02/24/16 20:33*	*5*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**1.25**		1.00		mg/L			03/08/16 10:27	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.46**		0.100		mg/L		02/17/16 14:24	02/18/16 16:21	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.70**		0.100		mg/L		02/18/16 14:59	02/19/16 19:18	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-13

Date Collected: 02/11/16 09:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-7

Matrix: Ground 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			02/24/16 05:23	1
Benzene	ND		1.00		ug/L			02/24/16 05:23	1
Bromobenzene	ND		1.00		ug/L			02/24/16 05:23	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 05:23	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 05:23	1
Bromoform	ND		1.00		ug/L			02/24/16 05:23	1
Bromomethane	ND		1.00		ug/L			02/24/16 05:23	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 05:23	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 05:23	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 05:23	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 05:23	1
Chloroethane	ND		1.00		ug/L			02/24/16 05:23	1
Chloroform	ND		1.00		ug/L			02/24/16 05:23	1
Chloromethane	ND		1.00		ug/L			02/24/16 05:23	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 05:23	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 05:23	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 05:23	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 05:23	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 05:23	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 05:23	1
Dibromomethane	ND		1.00		ug/L			02/24/16 05:23	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 05:23	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 05:23	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 05:23	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 05:23	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 05:23	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 05:23	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 05:23	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 05:23	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 05:23	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 05:23	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 05:23	1
2-Hexanone	ND		5.00		ug/L			02/24/16 05:23	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 05:23	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 05:23	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 05:23	1
Naphthalene	ND		1.00		ug/L			02/24/16 05:23	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 05:23	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
Styrene	ND		1.00		ug/L			02/24/16 05:23	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 05:23	1

Client Sample ID: MW-13

Date Collected: 02/11/16 09:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-7

Matrix: Ground 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			02/24/16 05:23	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 05:23	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 05:23	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 05:23	1
Toluene	ND		1.00		ug/L			02/24/16 05:23	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 05:23	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 05:23	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 05:23	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 05:23	1
Trichloroethene	ND		1.00		ug/L			02/24/16 05:23	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 05:23	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 05:23	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 05:23	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 05:23	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 05:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*72 - 136*		*02/24/16 05:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 137*		*02/24/16 05:23*	*1*
Toluene-d8 (Surr)	*97*		*74 - 120*		*02/24/16 05:23*	*1*
Bromofluorobenzene	*106*		*70 - 131*		*02/24/16 05:23*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.1**		1.00		mg/L			03/08/16 10:50	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**11.0**		0.100		mg/L		02/17/16 14:24	02/18/16 16:25	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**4.82**		0.100		mg/L		02/18/16 14:59	02/19/16 19:22	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.237**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-14

Date Collected: 02/11/16 10:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-8

Matrix: Ground 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			02/24/16 05:50	1
Benzene	ND		1.00		ug/L			02/24/16 05:50	1
Bromobenzene	ND		1.00		ug/L			02/24/16 05:50	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 05:50	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 05:50	1
Bromoform	ND		1.00		ug/L			02/24/16 05:50	1
Bromomethane	ND		1.00		ug/L			02/24/16 05:50	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 05:50	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 05:50	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 05:50	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 05:50	1
Chloroethane	ND		1.00		ug/L			02/24/16 05:50	1
Chloroform	ND		1.00		ug/L			02/24/16 05:50	1
Chloromethane	ND		1.00		ug/L			02/24/16 05:50	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 05:50	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 05:50	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 05:50	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 05:50	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 05:50	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 05:50	1
Dibromomethane	ND		1.00		ug/L			02/24/16 05:50	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 05:50	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 05:50	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 05:50	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 05:50	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 05:50	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 05:50	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 05:50	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 05:50	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 05:50	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 05:50	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 05:50	1
2-Hexanone	ND		5.00		ug/L			02/24/16 05:50	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 05:50	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 05:50	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 05:50	1
Naphthalene	ND		1.00		ug/L			02/24/16 05:50	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 05:50	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
Styrene	ND		1.00		ug/L			02/24/16 05:50	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 05:50	1

Client Sample ID: MW-14

Date Collected: 02/11/16 10:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-8

Matrix: Ground 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			02/24/16 05:50	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 05:50	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 05:50	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 05:50	1
Toluene	ND		1.00		ug/L			02/24/16 05:50	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 05:50	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 05:50	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 05:50	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 05:50	1
Trichloroethene	ND		1.00		ug/L			02/24/16 05:50	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 05:50	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 05:50	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 05:50	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 05:50	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 05:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*72 - 136*		*02/24/16 05:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 137*		*02/24/16 05:50*	*1*
Toluene-d8 (Surr)	*95*		*74 - 120*		*02/24/16 05:50*	*1*
Bromofluorobenzene	*104*		*70 - 131*		*02/24/16 05:50*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**12.3**		1.00		mg/L			03/08/16 11:12	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**5.61**		0.100		mg/L		02/17/16 14:24	02/18/16 16:29	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.34**		0.100		mg/L		02/18/16 14:59	02/19/16 19:26	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.325**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-15

Date Collected: 02/11/16 11:25
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-9

Matrix: Ground 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			02/24/16 06:18	1
Benzene	ND		1.00		ug/L			02/24/16 06:18	1
Bromobenzene	ND		1.00		ug/L			02/24/16 06:18	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 06:18	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 06:18	1
Bromoform	ND		1.00		ug/L			02/24/16 06:18	1
Bromomethane	ND		1.00		ug/L			02/24/16 06:18	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 06:18	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 06:18	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 06:18	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 06:18	1
Chloroethane	ND		1.00		ug/L			02/24/16 06:18	1
Chloroform	ND		1.00		ug/L			02/24/16 06:18	1
Chloromethane	ND		1.00		ug/L			02/24/16 06:18	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 06:18	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 06:18	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 06:18	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 06:18	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 06:18	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 06:18	1
Dibromomethane	ND		1.00		ug/L			02/24/16 06:18	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 06:18	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 06:18	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 06:18	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 06:18	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 06:18	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 06:18	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 06:18	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 06:18	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 06:18	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 06:18	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 06:18	1
2-Hexanone	ND		5.00		ug/L			02/24/16 06:18	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 06:18	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 06:18	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 06:18	1
Naphthalene	ND		1.00		ug/L			02/24/16 06:18	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 06:18	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
Styrene	ND		1.00		ug/L			02/24/16 06:18	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 06:18	1

Client Sample ID: MW-15

Date Collected: 02/11/16 11:25
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-9

Matrix: Ground 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			02/24/16 06:18	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 06:18	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 06:18	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 06:18	1
Toluene	ND		1.00		ug/L			02/24/16 06:18	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 06:18	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 06:18	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 06:18	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 06:18	1
Trichloroethene	ND		1.00		ug/L			02/24/16 06:18	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 06:18	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 06:18	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 06:18	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 06:18	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 06:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*91*		*72 - 136*		*02/24/16 06:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 137*		*02/24/16 06:18*	*1*
Toluene-d8 (Surr)	*94*		*74 - 120*		*02/24/16 06:18*	*1*
Bromofluorobenzene	*104*		*70 - 131*		*02/24/16 06:18*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**16.2**		1.00		mg/L			03/08/16 11:34	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.202**		0.100		mg/L		02/18/16 09:34	02/19/16 09:50	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 14:59	02/19/16 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.663**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-16

Date Collected: 02/11/16 14:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-10

Matrix: Ground 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			02/24/16 06:46	1
Benzene	ND		1.00		ug/L			02/24/16 06:46	1
Bromobenzene	ND		1.00		ug/L			02/24/16 06:46	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 06:46	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 06:46	1
Bromoform	ND		1.00		ug/L			02/24/16 06:46	1
Bromomethane	ND		1.00		ug/L			02/24/16 06:46	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 06:46	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 06:46	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 06:46	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 06:46	1
Chloroethane	ND		1.00		ug/L			02/24/16 06:46	1
Chloroform	ND		1.00		ug/L			02/24/16 06:46	1
Chloromethane	ND		1.00		ug/L			02/24/16 06:46	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 06:46	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 06:46	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 06:46	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 06:46	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 06:46	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 06:46	1
Dibromomethane	ND		1.00		ug/L			02/24/16 06:46	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 06:46	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 06:46	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 06:46	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 06:46	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 06:46	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 06:46	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 06:46	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 06:46	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 06:46	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 06:46	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 06:46	1
2-Hexanone	ND		5.00		ug/L			02/24/16 06:46	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 06:46	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 06:46	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 06:46	1
Naphthalene	ND		1.00		ug/L			02/24/16 06:46	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 06:46	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
Styrene	ND		1.00		ug/L			02/24/16 06:46	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/24/16 06:46	1

Client Sample ID: MW-16

Date Collected: 02/11/16 14:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-10

Matrix: Ground 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			02/24/16 06:46	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 06:46	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 06:46	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 06:46	1
Toluene	ND		1.00		ug/L			02/24/16 06:46	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 06:46	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 06:46	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 06:46	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 06:46	1
Trichloroethene	ND		1.00		ug/L			02/24/16 06:46	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 06:46	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 06:46	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 06:46	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 06:46	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 06:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*94*		*72 - 136*		*02/24/16 06:46*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*70 - 137*		*02/24/16 06:46*	*1*
Toluene-d8 (Surr)	*97*		*74 - 120*		*02/24/16 06:46*	*1*
Bromofluorobenzene	*106*		*70 - 131*		*02/24/16 06:46*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**10.7**		1.00		mg/L			03/08/16 11:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.229**		0.100		mg/L		02/18/16 09:34	02/19/16 09:55	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 14:59	02/19/16 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**1.53**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-2A

Date Collected: 02/11/16 16:50
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-12

Matrix: Ground Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		125		ug/L			02/25/16 14:00	5
Benzene	**53.1**		5.00		ug/L			02/25/16 14:00	5
Bromobenzene	ND		5.00		ug/L			02/25/16 14:00	5
Bromochloromethane	ND		5.00		ug/L			02/25/16 14:00	5
Bromodichloromethane	ND		5.00		ug/L			02/25/16 14:00	5
Bromoform	ND		5.00		ug/L			02/25/16 14:00	5
Bromomethane	ND		5.00		ug/L			02/25/16 14:00	5
2-Butanone (MEK)	ND		25.0		ug/L			02/25/16 14:00	5
Carbon disulfide	ND		5.00		ug/L			02/25/16 14:00	5
Carbon tetrachloride	ND		5.00		ug/L			02/25/16 14:00	5
Chlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
Chlorodibromomethane	ND		5.00		ug/L			02/25/16 14:00	5
Chloroethane	ND		5.00		ug/L			02/25/16 14:00	5
Chloroform	ND		5.00		ug/L			02/25/16 14:00	5
Chloromethane	ND		5.00		ug/L			02/25/16 14:00	5
2-Chlorotoluene	ND		5.00		ug/L			02/25/16 14:00	5
4-Chlorotoluene	ND		5.00		ug/L			02/25/16 14:00	5
cis-1,2-Dichloroethene	ND		5.00		ug/L			02/25/16 14:00	5
cis-1,3-Dichloropropene	ND		5.00		ug/L			02/25/16 14:00	5
1,2-Dibromo-3-Chloropropane	ND		5.00		ug/L			02/25/16 14:00	5
1,2-Dibromoethane (EDB)	ND		5.00		ug/L			02/25/16 14:00	5
Dibromomethane	ND		5.00		ug/L			02/25/16 14:00	5
1,2-Dichlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
1,3-Dichlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
1,4-Dichlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
Dichlorodifluoromethane	ND		5.00		ug/L			02/25/16 14:00	5
1,1-Dichloroethane	ND		5.00		ug/L			02/25/16 14:00	5
1,2-Dichloroethane	ND		5.00		ug/L			02/25/16 14:00	5
1,1-Dichloroethene	ND		5.00		ug/L			02/25/16 14:00	5
1,2-Dichloropropane	ND		5.00		ug/L			02/25/16 14:00	5
1,3-Dichloropropane	ND		5.00		ug/L			02/25/16 14:00	5
2,2-Dichloropropane	ND		5.00		ug/L			02/25/16 14:00	5
1,1-Dichloropropene	ND		5.00		ug/L			02/25/16 14:00	5
Diisopropyl ether	ND		5.00		ug/L			02/25/16 14:00	5
Ethylbenzene	**888**		5.00		ug/L			02/25/16 14:00	5
Ethyl tert-butyl ether	ND		5.00		ug/L			02/25/16 14:00	5
Hexachlorobutadiene	ND		5.00		ug/L			02/25/16 14:00	5
2-Hexanone	ND		25.0		ug/L			02/25/16 14:00	5
Isopropylbenzene	**27.8**		5.00		ug/L			02/25/16 14:00	5
Methylene Chloride	ND	*	25.0		ug/L			02/25/16 14:00	5
4-Methyl-2-pentanone (MIBK)	ND		25.0		ug/L			02/25/16 14:00	5
Methyl tert-butyl ether	**27.5**		5.00		ug/L			02/25/16 14:00	5
Naphthalene	**176**		5.00		ug/L			02/25/16 14:00	5
n-Butylbenzene	ND		5.00		ug/L			02/25/16 14:00	5
N-Propylbenzene	**56.8**		5.00		ug/L			02/25/16 14:00	5
p-Isopropyltoluene	ND		5.00		ug/L			02/25/16 14:00	5
sec-Butylbenzene	ND		5.00		ug/L			02/25/16 14:00	5
Styrene	ND		5.00		ug/L			02/25/16 14:00	5
Tert-amyl methyl ether	ND		5.00		ug/L			02/25/16 14:00	5

Client Sample ID: MW-2A

Date Collected: 02/11/16 16:50
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-12

Matrix: Ground 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		50.0		ug/L			02/25/16 14:00	5
tert-Butylbenzene	ND		5.00		ug/L			02/25/16 14:00	5
1,1,1,2-Tetrachloroethane	ND		5.00		ug/L			02/25/16 14:00	5
1,1,2,2-Tetrachloroethane	ND		5.00		ug/L			02/25/16 14:00	5
Tetrachloroethene	ND		5.00		ug/L			02/25/16 14:00	5
Toluene	**268**		5.00		ug/L			02/25/16 14:00	5
trans-1,2-Dichloroethene	ND		5.00		ug/L			02/25/16 14:00	5
trans-1,3-Dichloropropene	ND		5.00		ug/L			02/25/16 14:00	5
1,2,3-Trichlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
1,2,4-Trichlorobenzene	ND		5.00		ug/L			02/25/16 14:00	5
1,1,1-Trichloroethane	ND		5.00		ug/L			02/25/16 14:00	5
1,1,2-Trichloroethane	ND		5.00		ug/L			02/25/16 14:00	5
Trichloroethene	ND		5.00		ug/L			02/25/16 14:00	5
Trichlorofluoromethane	ND		5.00		ug/L			02/25/16 14:00	5
1,2,3-Trichloropropane	ND		5.00		ug/L			02/25/16 14:00	5
1,2,4-Trimethylbenzene	**560**		5.00		ug/L			02/25/16 14:00	5
1,3,5-Trimethylbenzene	**105**		5.00		ug/L			02/25/16 14:00	5
Vinyl chloride	ND		5.00		ug/L			02/25/16 14:00	5
Xylenes, Total	**1810**		10.0		ug/L			02/25/16 14:00	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*87*		*72 - 136*		*02/25/16 14:00*	*5*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 137*		*02/25/16 14:00*	*5*
Toluene-d8 (Surr)	*97*		*74 - 120*		*02/25/16 14:00*	*5*
Bromofluorobenzene	*89*		*70 - 131*		*02/25/16 14:00*	*5*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			03/08/16 14:38	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**10.3**		0.100		mg/L		02/18/16 09:34	02/19/16 10:12	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**0.125**		0.100		mg/L		02/18/16 14:59	02/19/16 19:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-3A

Date Collected: 02/11/16 16:30
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-14

Matrix: Ground 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			02/25/16 13:06	1
Benzene	ND		1.00		ug/L			02/25/16 13:06	1
Bromobenzene	ND		1.00		ug/L			02/25/16 13:06	1
Bromochloromethane	ND		1.00		ug/L			02/25/16 13:06	1
Bromodichloromethane	ND		1.00		ug/L			02/25/16 13:06	1
Bromoform	ND		1.00		ug/L			02/25/16 13:06	1
Bromomethane	ND		1.00		ug/L			02/25/16 13:06	1
2-Butanone (MEK)	ND		5.00		ug/L			02/25/16 13:06	1
Carbon disulfide	ND		1.00		ug/L			02/25/16 13:06	1
Carbon tetrachloride	ND		1.00		ug/L			02/25/16 13:06	1
Chlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
Chlorodibromomethane	ND		1.00		ug/L			02/25/16 13:06	1
Chloroethane	ND		1.00		ug/L			02/25/16 13:06	1
Chloroform	ND		1.00		ug/L			02/25/16 13:06	1
Chloromethane	ND		1.00		ug/L			02/25/16 13:06	1
2-Chlorotoluene	ND		1.00		ug/L			02/25/16 13:06	1
4-Chlorotoluene	ND		1.00		ug/L			02/25/16 13:06	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 13:06	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 13:06	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/25/16 13:06	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/25/16 13:06	1
Dibromomethane	ND		1.00		ug/L			02/25/16 13:06	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/25/16 13:06	1
1,1-Dichloroethane	ND		1.00		ug/L			02/25/16 13:06	1
1,2-Dichloroethane	ND		1.00		ug/L			02/25/16 13:06	1
1,1-Dichloroethene	ND		1.00		ug/L			02/25/16 13:06	1
1,2-Dichloropropane	ND		1.00		ug/L			02/25/16 13:06	1
1,3-Dichloropropane	ND		1.00		ug/L			02/25/16 13:06	1
2,2-Dichloropropane	ND		1.00		ug/L			02/25/16 13:06	1
1,1-Dichloropropene	ND		1.00		ug/L			02/25/16 13:06	1
Diisopropyl ether	ND		1.00		ug/L			02/25/16 13:06	1
Ethylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/25/16 13:06	1
Hexachlorobutadiene	ND		1.00		ug/L			02/25/16 13:06	1
2-Hexanone	ND		5.00		ug/L			02/25/16 13:06	1
Isopropylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
Methylene Chloride	ND	*	5.00		ug/L			02/25/16 13:06	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/25/16 13:06	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/25/16 13:06	1
Naphthalene	ND		1.00		ug/L			02/25/16 13:06	1
n-Butylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
N-Propylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
p-Isopropyltoluene	ND		1.00		ug/L			02/25/16 13:06	1
sec-Butylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
Styrene	ND		1.00		ug/L			02/25/16 13:06	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/25/16 13:06	1

Client Sample ID: MW-3A

Date Collected: 02/11/16 16:30
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-14

Matrix: Ground 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			02/25/16 13:06	1
tert-Butylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 13:06	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 13:06	1
Tetrachloroethene	ND		1.00		ug/L			02/25/16 13:06	1
Toluene	ND		1.00		ug/L			02/25/16 13:06	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 13:06	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 13:06	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/25/16 13:06	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/25/16 13:06	1
Trichloroethene	ND		1.00		ug/L			02/25/16 13:06	1
Trichlorofluoromethane	ND		1.00		ug/L			02/25/16 13:06	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/25/16 13:06	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/25/16 13:06	1
Vinyl chloride	ND		1.00		ug/L			02/25/16 13:06	1
Xylenes, Total	ND		2.00		ug/L			02/25/16 13:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*72 - 136*		*02/25/16 13:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 137*		*02/25/16 13:06*	*1*
Toluene-d8 (Surr)	*96*		*74 - 120*		*02/25/16 13:06*	*1*
Bromofluorobenzene	*84*		*70 - 131*		*02/25/16 13:06*	*1*

Method: 9056A - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**21.0**		1.00		mg/L			03/08/16 16:06	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	**2.22**		0.100		mg/L		02/18/16 09:34	02/19/16 10:16	1

Method: 6010B - Metals (ICP) - Dissolved

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 14:59	02/19/16 18:51	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	**0.952**		0.100		mg/L			02/25/16 16:19	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-8

Date Collected: 02/12/16 08:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-16

Matrix: Ground 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			02/25/16 17:37	1
Benzene	ND		1.00		ug/L			02/25/16 17:37	1
Bromobenzene	ND		1.00		ug/L			02/25/16 17:37	1
Bromochloromethane	ND		1.00		ug/L			02/25/16 17:37	1
Bromodichloromethane	ND		1.00		ug/L			02/25/16 17:37	1
Bromoform	ND		1.00		ug/L			02/25/16 17:37	1
Bromomethane	ND		1.00		ug/L			02/25/16 17:37	1
2-Butanone (MEK)	ND		5.00		ug/L			02/25/16 17:37	1
Carbon disulfide	ND		1.00		ug/L			02/25/16 17:37	1
Carbon tetrachloride	ND		1.00		ug/L			02/25/16 17:37	1
Chlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
Chlorodibromomethane	ND		1.00		ug/L			02/25/16 17:37	1
Chloroethane	ND		1.00		ug/L			02/25/16 17:37	1
Chloroform	ND		1.00		ug/L			02/25/16 17:37	1
Chloromethane	ND		1.00		ug/L			02/25/16 17:37	1
2-Chlorotoluene	ND		1.00		ug/L			02/25/16 17:37	1
4-Chlorotoluene	ND		1.00		ug/L			02/25/16 17:37	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 17:37	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 17:37	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/25/16 17:37	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/25/16 17:37	1
Dibromomethane	ND		1.00		ug/L			02/25/16 17:37	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/25/16 17:37	1
1,1-Dichloroethane	ND		1.00		ug/L			02/25/16 17:37	1
1,2-Dichloroethane	ND		1.00		ug/L			02/25/16 17:37	1
1,1-Dichloroethene	ND		1.00		ug/L			02/25/16 17:37	1
1,2-Dichloropropane	ND		1.00		ug/L			02/25/16 17:37	1
1,3-Dichloropropane	ND		1.00		ug/L			02/25/16 17:37	1
2,2-Dichloropropane	ND		1.00		ug/L			02/25/16 17:37	1
1,1-Dichloropropene	ND		1.00		ug/L			02/25/16 17:37	1
Diisopropyl ether	ND		1.00		ug/L			02/25/16 17:37	1
Ethylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/25/16 17:37	1
Hexachlorobutadiene	ND		1.00		ug/L			02/25/16 17:37	1
2-Hexanone	ND		5.00		ug/L			02/25/16 17:37	1
Isopropylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
Methylene Chloride	ND	*	5.00		ug/L			02/25/16 17:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/25/16 17:37	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/25/16 17:37	1
Naphthalene	ND		1.00		ug/L			02/25/16 17:37	1
n-Butylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
N-Propylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
p-Isopropyltoluene	ND		1.00		ug/L			02/25/16 17:37	1
sec-Butylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
Styrene	ND		1.00		ug/L			02/25/16 17:37	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/25/16 17:37	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-8

Date Collected: 02/12/16 08:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-16

Matrix: Ground 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			02/25/16 17:37	1
tert-Butylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 17:37	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 17:37	1
Tetrachloroethene	ND		1.00		ug/L			02/25/16 17:37	1
Toluene	ND		1.00		ug/L			02/25/16 17:37	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 17:37	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 17:37	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/25/16 17:37	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/25/16 17:37	1
Trichloroethene	ND		1.00		ug/L			02/25/16 17:37	1
Trichlorofluoromethane	ND		1.00		ug/L			02/25/16 17:37	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/25/16 17:37	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/25/16 17:37	1
Vinyl chloride	ND		1.00		ug/L			02/25/16 17:37	1
Xylenes, Total	ND		2.00		ug/L			02/25/16 17:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*100*		*72 - 136*		*02/25/16 17:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 137*		*02/25/16 17:37*	*1*
Toluene-d8 (Surr)	*109*		*74 - 120*		*02/25/16 17:37*	*1*
Bromofluorobenzene	*97*		*70 - 131*		*02/25/16 17:37*	*1*

Client Sample ID: Rinse Blank

Lab Sample ID: 490-97587-17

Date Collected: 02/12/16 10:10

Matrix: Water

Date Received: 02/17/16 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			02/25/16 17:10	1
Benzene	ND		1.00		ug/L			02/25/16 17:10	1
Bromobenzene	ND		1.00		ug/L			02/25/16 17:10	1
Bromochloromethane	ND		1.00		ug/L			02/25/16 17:10	1
Bromodichloromethane	ND		1.00		ug/L			02/25/16 17:10	1
Bromoform	ND		1.00		ug/L			02/25/16 17:10	1
Bromomethane	ND		1.00		ug/L			02/25/16 17:10	1
2-Butanone (MEK)	ND		5.00		ug/L			02/25/16 17:10	1
Carbon disulfide	ND		1.00		ug/L			02/25/16 17:10	1
Carbon tetrachloride	ND		1.00		ug/L			02/25/16 17:10	1
Chlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
Chlorodibromomethane	ND		1.00		ug/L			02/25/16 17:10	1
Chloroethane	ND		1.00		ug/L			02/25/16 17:10	1
Chloroform	ND		1.00		ug/L			02/25/16 17:10	1
Chloromethane	ND		1.00		ug/L			02/25/16 17:10	1
2-Chlorotoluene	ND		1.00		ug/L			02/25/16 17:10	1
4-Chlorotoluene	ND		1.00		ug/L			02/25/16 17:10	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 17:10	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 17:10	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/25/16 17:10	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/25/16 17:10	1
Dibromomethane	ND		1.00		ug/L			02/25/16 17:10	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/25/16 17:10	1
1,1-Dichloroethane	ND		1.00		ug/L			02/25/16 17:10	1
1,2-Dichloroethane	ND		1.00		ug/L			02/25/16 17:10	1
1,1-Dichloroethene	ND		1.00		ug/L			02/25/16 17:10	1
1,2-Dichloropropane	ND		1.00		ug/L			02/25/16 17:10	1
1,3-Dichloropropane	ND		1.00		ug/L			02/25/16 17:10	1
2,2-Dichloropropane	ND		1.00		ug/L			02/25/16 17:10	1
1,1-Dichloropropene	ND		1.00		ug/L			02/25/16 17:10	1
Diisopropyl ether	ND		1.00		ug/L			02/25/16 17:10	1
Ethylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/25/16 17:10	1
Hexachlorobutadiene	ND		1.00		ug/L			02/25/16 17:10	1
2-Hexanone	ND		5.00		ug/L			02/25/16 17:10	1
Isopropylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
Methylene Chloride	ND	*	5.00		ug/L			02/25/16 17:10	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/25/16 17:10	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/25/16 17:10	1
Naphthalene	ND		1.00		ug/L			02/25/16 17:10	1
n-Butylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
N-Propylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
p-Isopropyltoluene	ND		1.00		ug/L			02/25/16 17:10	1
sec-Butylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
Styrene	ND		1.00		ug/L			02/25/16 17:10	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/25/16 17:10	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: Rinse Blank

Lab Sample ID: 490-97587-17

Date Collected: 02/12/16 10:10

Matrix: Water

Date Received: 02/17/16 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			02/25/16 17:10	1
tert-Butylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 17:10	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 17:10	1
Tetrachloroethene	ND		1.00		ug/L			02/25/16 17:10	1
Toluene	ND		1.00		ug/L			02/25/16 17:10	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 17:10	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 17:10	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/25/16 17:10	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/25/16 17:10	1
Trichloroethene	ND		1.00		ug/L			02/25/16 17:10	1
Trichlorofluoromethane	ND		1.00		ug/L			02/25/16 17:10	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/25/16 17:10	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/25/16 17:10	1
Vinyl chloride	ND		1.00		ug/L			02/25/16 17:10	1
Xylenes, Total	ND		2.00		ug/L			02/25/16 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*86*		*72 - 136*		*02/25/16 17:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 137*		*02/25/16 17:10*	*1*
Toluene-d8 (Surr)	*98*		*74 - 120*		*02/25/16 17:10*	*1*
Bromofluorobenzene	*85*		*70 - 131*		*02/25/16 17:10*	*1*

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-97587-18

Date Collected: 02/12/16 01:00
Matrix: Water
Date Received: 02/17/16 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			02/25/16 16:42	1
Benzene	ND		1.00		ug/L			02/25/16 16:42	1
Bromobenzene	ND		1.00		ug/L			02/25/16 16:42	1
Bromochloromethane	ND		1.00		ug/L			02/25/16 16:42	1
Bromodichloromethane	ND		1.00		ug/L			02/25/16 16:42	1
Bromoform	ND		1.00		ug/L			02/25/16 16:42	1
Bromomethane	ND		1.00		ug/L			02/25/16 16:42	1
2-Butanone (MEK)	ND		5.00		ug/L			02/25/16 16:42	1
Carbon disulfide	ND		1.00		ug/L			02/25/16 16:42	1
Carbon tetrachloride	ND		1.00		ug/L			02/25/16 16:42	1
Chlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
Chlorodibromomethane	ND		1.00		ug/L			02/25/16 16:42	1
Chloroethane	ND		1.00		ug/L			02/25/16 16:42	1
Chloroform	**3.66**		1.00		ug/L			02/25/16 16:42	1
Chloromethane	ND		1.00		ug/L			02/25/16 16:42	1
2-Chlorotoluene	ND		1.00		ug/L			02/25/16 16:42	1
4-Chlorotoluene	ND		1.00		ug/L			02/25/16 16:42	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 16:42	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 16:42	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/25/16 16:42	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/25/16 16:42	1
Dibromomethane	ND		1.00		ug/L			02/25/16 16:42	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/25/16 16:42	1
1,1-Dichloroethane	ND		1.00		ug/L			02/25/16 16:42	1
1,2-Dichloroethane	ND		1.00		ug/L			02/25/16 16:42	1
1,1-Dichloroethene	ND		1.00		ug/L			02/25/16 16:42	1
1,2-Dichloropropane	ND		1.00		ug/L			02/25/16 16:42	1
1,3-Dichloropropane	ND		1.00		ug/L			02/25/16 16:42	1
2,2-Dichloropropane	ND		1.00		ug/L			02/25/16 16:42	1
1,1-Dichloropropene	ND		1.00		ug/L			02/25/16 16:42	1
Diisopropyl ether	ND		1.00		ug/L			02/25/16 16:42	1
Ethylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/25/16 16:42	1
Hexachlorobutadiene	ND		1.00		ug/L			02/25/16 16:42	1
2-Hexanone	ND		5.00		ug/L			02/25/16 16:42	1
Isopropylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
Methylene Chloride	ND	*	5.00		ug/L			02/25/16 16:42	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/25/16 16:42	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/25/16 16:42	1
Naphthalene	ND		1.00		ug/L			02/25/16 16:42	1
n-Butylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
N-Propylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
p-Isopropyltoluene	ND		1.00		ug/L			02/25/16 16:42	1
sec-Butylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
Styrene	ND		1.00		ug/L			02/25/16 16:42	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/25/16 16:42	1

Client Sample Results

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: Trip Blank

Lab Sample ID: 490-97587-18

Date Collected: 02/12/16 01:00

Matrix: Water

Date Received: 02/17/16 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			02/25/16 16:42	1
tert-Butylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 16:42	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 16:42	1
Tetrachloroethene	ND		1.00		ug/L			02/25/16 16:42	1
Toluene	ND		1.00		ug/L			02/25/16 16:42	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 16:42	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 16:42	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/25/16 16:42	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/25/16 16:42	1
Trichloroethene	ND		1.00		ug/L			02/25/16 16:42	1
Trichlorofluoromethane	ND		1.00		ug/L			02/25/16 16:42	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/25/16 16:42	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/25/16 16:42	1
Vinyl chloride	ND		1.00		ug/L			02/25/16 16:42	1
Xylenes, Total	ND		2.00		ug/L			02/25/16 16:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*88*		*72 - 136*		*02/25/16 16:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 137*		*02/25/16 16:42*	*1*
Toluene-d8 (Surr)	*98*		*74 - 120*		*02/25/16 16:42*	*1*
Bromofluorobenzene	*86*		*70 - 131*		*02/25/16 16:42*	*1*

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

Lab Sample ID: MB 460-352086/7
Matrix: Water
Analysis Batch: 352086

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			02/24/16 00:45	1
Benzene	ND		1.00		ug/L			02/24/16 00:45	1
Bromobenzene	ND		1.00		ug/L			02/24/16 00:45	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 00:45	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 00:45	1
Bromoform	ND		1.00		ug/L			02/24/16 00:45	1
Bromomethane	ND		1.00		ug/L			02/24/16 00:45	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 00:45	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 00:45	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 00:45	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 00:45	1
Chloroethane	ND		1.00		ug/L			02/24/16 00:45	1
Chloroform	ND		1.00		ug/L			02/24/16 00:45	1
Chloromethane	ND		1.00		ug/L			02/24/16 00:45	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 00:45	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 00:45	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 00:45	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 00:45	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 00:45	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 00:45	1
Dibromomethane	ND		1.00		ug/L			02/24/16 00:45	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 00:45	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 00:45	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 00:45	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 00:45	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 00:45	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 00:45	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 00:45	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 00:45	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 00:45	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 00:45	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 00:45	1
2-Hexanone	ND		5.00		ug/L			02/24/16 00:45	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 00:45	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 00:45	1
Naphthalene	ND		1.00		ug/L			02/24/16 00:45	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 00:45	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
Styrene	ND		1.00		ug/L			02/24/16 00:45	1

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

Lab Sample ID: MB 460-352086/7
Matrix: Water
Analysis Batch: 352086

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			02/24/16 00:45	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			02/24/16 00:45	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 00:45	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 00:45	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 00:45	1
Toluene	ND		1.00		ug/L			02/24/16 00:45	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 00:45	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 00:45	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 00:45	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 00:45	1
Trichloroethene	ND		1.00		ug/L			02/24/16 00:45	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 00:45	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 00:45	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 00:45	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 00:45	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 00:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*93*		*72 - 136*		*02/24/16 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 137*		*02/24/16 00:45*	*1*
Toluene-d8 (Surr)	*98*		*74 - 120*		*02/24/16 00:45*	*1*
Bromofluorobenzene	*105*		*70 - 131*		*02/24/16 00:45*	*1*

Lab Sample ID: LCS 460-352086/3
Matrix: Water
Analysis Batch: 352086

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	91.84		ug/L		92	19 - 150
Benzene	20.0	19.61		ug/L		98	76 - 125
Bromobenzene	20.0	19.34		ug/L		97	77 - 120
Bromochloromethane	20.0	19.22		ug/L		96	71 - 137
Bromodichloromethane	20.0	19.00		ug/L		95	78 - 127
Bromoform	20.0	18.57		ug/L		93	65 - 124
Bromomethane	20.0	16.02		ug/L		80	10 - 150
2-Butanone (MEK)	100	93.61		ug/L		94	56 - 150
Carbon disulfide	20.0	18.59		ug/L		93	69 - 131
Carbon tetrachloride	20.0	19.48		ug/L		97	71 - 138
Chlorobenzene	20.0	19.16		ug/L		96	80 - 120
Chlorodibromomethane	20.0	19.14		ug/L		96	78 - 120
Chloroethane	20.0	16.14		ug/L		81	40 - 150
Chloroform	20.0	19.21		ug/L		96	81 - 127
Chloromethane	20.0	16.86		ug/L		84	45 - 150
2-Chlorotoluene	20.0	19.69		ug/L		98	70 - 130

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

Lab Sample ID: LCS 460-352086/3
Matrix: Water
Analysis Batch: 352086

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	19.50		ug/L		98	70 - 129
cis-1,2-Dichloroethene	20.0	18.86		ug/L		94	82 - 127
cis-1,3-Dichloropropene	20.0	19.79		ug/L		99	72 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.90		ug/L		99	55 - 133
1,2-Dibromoethane (EDB)	20.0	19.74		ug/L		99	80 - 120
Dibromomethane	20.0	19.89		ug/L		99	80 - 130
1,2-Dichlorobenzene	20.0	19.47		ug/L		97	80 - 121
1,3-Dichlorobenzene	20.0	19.18		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.99		ug/L		95	79 - 120
Dichlorodifluoromethane	20.0	16.91		ug/L		85	32 - 150
1,1-Dichloroethane	20.0	19.17		ug/L		96	77 - 129
1,2-Dichloroethane	20.0	19.70		ug/L		99	73 - 131
1,1-Dichloroethene	20.0	18.48		ug/L		92	67 - 133
1,2-Dichloropropane	20.0	19.38		ug/L		97	75 - 129
1,3-Dichloropropane	20.0	20.07		ug/L		100	75 - 123
2,2-Dichloropropane	20.0	18.87		ug/L		94	66 - 136
1,1-Dichloropropene	20.0	19.70		ug/L		99	74 - 132
Diisopropyl ether	20.0	20.12		ug/L		101	67 - 140
Ethylbenzene	20.0	19.18		ug/L		96	80 - 120
Ethyl tert-butyl ether	20.0	19.85		ug/L		99	76 - 130
Hexachlorobutadiene	20.0	18.05		ug/L		90	49 - 150
2-Hexanone	100	101.5		ug/L		101	64 - 150
Isopropylbenzene	20.0	19.68		ug/L		98	80 - 127
Methylene Chloride	20.0	18.84		ug/L		94	80 - 126
4-Methyl-2-pentanone (MIBK)	100	102.9		ug/L		103	77 - 130
Methyl tert-butyl ether	20.0	19.89		ug/L		99	78 - 129
Naphthalene	20.0	21.09		ug/L		105	66 - 133
n-Butylbenzene	20.0	19.53		ug/L		98	66 - 139
N-Propylbenzene	20.0	19.70		ug/L		98	70 - 133
p-Isopropyltoluene	20.0	19.37		ug/L		97	65 - 133
sec-Butylbenzene	20.0	19.77		ug/L		99	70 - 132
Styrene	20.0	19.58		ug/L		98	75 - 124
Tert-amyl methyl ether	20.0	19.83		ug/L		99	77 - 129
tert-Butyl alcohol (TBA)	200	192.0		ug/L		96	68 - 141
tert-Butylbenzene	20.0	19.71		ug/L		99	70 - 127
1,1,1,2-Tetrachloroethane	20.0	18.97		ug/L		95	78 - 121
1,1,2,2-Tetrachloroethane	20.0	19.97		ug/L		100	65 - 128
Tetrachloroethene	20.0	19.30		ug/L		96	71 - 132
Toluene	20.0	19.32		ug/L		97	80 - 120
trans-1,2-Dichloroethene	20.0	18.50		ug/L		93	78 - 127
trans-1,3-Dichloropropene	20.0	19.80		ug/L		99	69 - 125
1,2,3-Trichlorobenzene	20.0	19.86		ug/L		99	64 - 142
1,2,4-Trichlorobenzene	20.0	19.42		ug/L		97	66 - 137
1,1,1-Trichloroethane	20.0	18.99		ug/L		95	76 - 131
1,1,2-Trichloroethane	20.0	19.93		ug/L		100	77 - 122
Trichloroethene	20.0	18.97		ug/L		95	77 - 127
Trichlorofluoromethane	20.0	19.39		ug/L		97	50 - 150
1,2,3-Trichloropropane	20.0	19.25		ug/L		96	69 - 125

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

Lab Sample ID: LCS 460-352086/3
Matrix: Water
Analysis Batch: 352086

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	19.75		ug/L		99	74 - 127
1,3,5-Trimethylbenzene	20.0	19.75		ug/L		99	68 - 130
Vinyl chloride	20.0	17.77		ug/L		89	53 - 142
Xylenes, Total	40.0	39.24		ug/L		98	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*94*		*70 - 137*
Toluene-d8 (Surr)	*97*		*74 - 120*
Bromofluorobenzene	*105*		*70 - 131*

Lab Sample ID: LCSD 460-352086/4
Matrix: Water
Analysis Batch: 352086

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	91.04		ug/L		91	19 - 150	1	30
Benzene	20.0	20.49		ug/L		102	76 - 125	4	30
Bromobenzene	20.0	19.90		ug/L		100	77 - 120	3	30
Bromochloromethane	20.0	19.94		ug/L		100	71 - 137	4	30
Bromodichloromethane	20.0	19.52		ug/L		98	78 - 127	3	30
Bromoform	20.0	19.19		ug/L		96	65 - 124	3	30
Bromomethane	20.0	17.43		ug/L		87	10 - 150	8	30
2-Butanone (MEK)	100	93.53		ug/L		94	56 - 150	0	30
Carbon disulfide	20.0	19.86		ug/L		99	69 - 131	7	30
Carbon tetrachloride	20.0	20.78		ug/L		104	71 - 138	6	30
Chlorobenzene	20.0	19.94		ug/L		100	80 - 120	4	30
Chlorodibromomethane	20.0	19.50		ug/L		97	78 - 120	2	30
Chloroethane	20.0	21.56		ug/L		108	40 - 150	29	30
Chloroform	20.0	20.19		ug/L		101	81 - 127	5	30
Chloromethane	20.0	16.17		ug/L		81	45 - 150	4	30
2-Chlorotoluene	20.0	20.38		ug/L		102	70 - 130	3	30
4-Chlorotoluene	20.0	20.15		ug/L		101	70 - 129	3	30
cis-1,2-Dichloroethene	20.0	19.85		ug/L		99	82 - 127	5	30
cis-1,3-Dichloropropene	20.0	20.20		ug/L		101	72 - 125	2	30
1,2-Dibromo-3-Chloropropane	20.0	20.86		ug/L		104	55 - 133	5	30
1,2-Dibromoethane (EDB)	20.0	20.20		ug/L		101	80 - 120	2	30
Dibromomethane	20.0	19.99		ug/L		100	80 - 130	0	30
1,2-Dichlorobenzene	20.0	19.65		ug/L		98	80 - 121	1	30
1,3-Dichlorobenzene	20.0	19.74		ug/L		99	80 - 120	3	30
1,4-Dichlorobenzene	20.0	19.35		ug/L		97	79 - 120	2	30
Dichlorodifluoromethane	20.0	18.53		ug/L		93	32 - 150	9	30
1,1-Dichloroethane	20.0	20.23		ug/L		101	77 - 129	5	30
1,2-Dichloroethane	20.0	19.94		ug/L		100	73 - 131	1	30
1,1-Dichloroethene	20.0	19.86		ug/L		99	67 - 133	7	30
1,2-Dichloropropane	20.0	19.87		ug/L		99	75 - 129	2	30
1,3-Dichloropropane	20.0	20.52		ug/L		103	75 - 123	2	30
2,2-Dichloropropane	20.0	18.83		ug/L		94	66 - 136	0	30

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

Lab Sample ID: LCSD 460-352086/4
Matrix: Water
Analysis Batch: 352086

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

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloropropene			20.0	20.63		ug/L		103	74 - 132	5	30
Diisopropyl ether			20.0	20.44		ug/L		102	67 - 140	2	30
Ethylbenzene			20.0	20.24		ug/L		101	80 - 120	5	30
Ethyl tert-butyl ether			20.0	20.59		ug/L		103	76 - 130	4	30
Hexachlorobutadiene			20.0	18.98		ug/L		95	49 - 150	5	30
2-Hexanone			100	101.7		ug/L		102	64 - 150	0	30
Isopropylbenzene			20.0	20.78		ug/L		104	80 - 127	5	30
Methylene Chloride			20.0	19.51		ug/L		98	80 - 126	4	30
4-Methyl-2-pentanone (MIBK)			100	102.1		ug/L		102	77 - 130	1	30
Methyl tert-butyl ether			20.0	20.38		ug/L		102	78 - 129	2	30
Naphthalene			20.0	21.83		ug/L		109	66 - 133	3	30
n-Butylbenzene			20.0	20.48		ug/L		102	66 - 139	5	30
N-Propylbenzene			20.0	20.80		ug/L		104	70 - 133	5	30
p-Isopropyltoluene			20.0	20.39		ug/L		102	65 - 133	5	30
sec-Butylbenzene			20.0	20.44		ug/L		102	70 - 132	3	30
Styrene			20.0	20.18		ug/L		101	75 - 124	3	30
Tert-amyl methyl ether			20.0	20.15		ug/L		101	77 - 129	2	30
tert-Butyl alcohol (TBA)			200	195.7		ug/L		98	68 - 141	2	30
tert-Butylbenzene			20.0	20.44		ug/L		102	70 - 127	4	30
1,1,1,2-Tetrachloroethane			20.0	19.54		ug/L		98	78 - 121	3	30
1,1,2,2-Tetrachloroethane			20.0	20.33		ug/L		102	65 - 128	2	30
Tetrachloroethene			20.0	20.22		ug/L		101	71 - 132	5	30
Toluene			20.0	20.31		ug/L		102	80 - 120	5	30
trans-1,2-Dichloroethene			20.0	19.99		ug/L		100	78 - 127	8	30
trans-1,3-Dichloropropene			20.0	20.39		ug/L		102	69 - 125	3	30
1,2,3-Trichlorobenzene			20.0	20.07		ug/L		100	64 - 142	1	30
1,2,4-Trichlorobenzene			20.0	20.12		ug/L		101	66 - 137	4	30
1,1,1-Trichloroethane			20.0	20.32		ug/L		102	76 - 131	7	30
1,1,2-Trichloroethane			20.0	20.24		ug/L		101	77 - 122	2	30
Trichloroethene			20.0	20.14		ug/L		101	77 - 127	6	30
Trichlorofluoromethane			20.0	21.11		ug/L		106	50 - 150	8	30
1,2,3-Trichloropropane			20.0	19.90		ug/L		100	69 - 125	3	30
1,2,4-Trimethylbenzene			20.0	20.46		ug/L		102	74 - 127	4	30
1,3,5-Trimethylbenzene			20.0	20.50		ug/L		102	68 - 130	4	30
Vinyl chloride			20.0	19.11		ug/L		96	53 - 142	7	30
Xylenes, Total			40.0	40.50		ug/L		101	80 - 120	3	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*95*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 137*
Toluene-d8 (Surr)	*97*		*74 - 120*
Bromofluorobenzene	*105*		*70 - 131*

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

Lab Sample ID: MB 460-352174/7
Matrix: Water
Analysis Batch: 352174

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			02/24/16 13:58	1
Benzene	ND		1.00		ug/L			02/24/16 13:58	1
Bromobenzene	ND		1.00		ug/L			02/24/16 13:58	1
Bromochloromethane	ND		1.00		ug/L			02/24/16 13:58	1
Bromodichloromethane	ND		1.00		ug/L			02/24/16 13:58	1
Bromoform	ND		1.00		ug/L			02/24/16 13:58	1
Bromomethane	ND		1.00		ug/L			02/24/16 13:58	1
2-Butanone (MEK)	ND		5.00		ug/L			02/24/16 13:58	1
Carbon disulfide	ND		1.00		ug/L			02/24/16 13:58	1
Carbon tetrachloride	ND		1.00		ug/L			02/24/16 13:58	1
Chlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
Chlorodibromomethane	ND		1.00		ug/L			02/24/16 13:58	1
Chloroethane	ND		1.00		ug/L			02/24/16 13:58	1
Chloroform	ND		1.00		ug/L			02/24/16 13:58	1
Chloromethane	ND		1.00		ug/L			02/24/16 13:58	1
2-Chlorotoluene	ND		1.00		ug/L			02/24/16 13:58	1
4-Chlorotoluene	ND		1.00		ug/L			02/24/16 13:58	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 13:58	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 13:58	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/24/16 13:58	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/24/16 13:58	1
Dibromomethane	ND		1.00		ug/L			02/24/16 13:58	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/24/16 13:58	1
1,1-Dichloroethane	ND		1.00		ug/L			02/24/16 13:58	1
1,2-Dichloroethane	ND		1.00		ug/L			02/24/16 13:58	1
1,1-Dichloroethene	ND		1.00		ug/L			02/24/16 13:58	1
1,2-Dichloropropane	ND		1.00		ug/L			02/24/16 13:58	1
1,3-Dichloropropane	ND		1.00		ug/L			02/24/16 13:58	1
2,2-Dichloropropane	ND		1.00		ug/L			02/24/16 13:58	1
1,1-Dichloropropene	ND		1.00		ug/L			02/24/16 13:58	1
Diisopropyl ether	ND		1.00		ug/L			02/24/16 13:58	1
Ethylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/24/16 13:58	1
Hexachlorobutadiene	ND		1.00		ug/L			02/24/16 13:58	1
2-Hexanone	ND		5.00		ug/L			02/24/16 13:58	1
Isopropylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
Methylene Chloride	ND		5.00		ug/L			02/24/16 13:58	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/24/16 13:58	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/24/16 13:58	1
Naphthalene	ND		1.00		ug/L			02/24/16 13:58	1
n-Butylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
N-Propylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
p-Isopropyltoluene	ND		1.00		ug/L			02/24/16 13:58	1
sec-Butylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
Styrene	ND		1.00		ug/L			02/24/16 13:58	1

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

Lab Sample ID: MB 460-352174/7
Matrix: Water
Analysis Batch: 352174

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			02/24/16 13:58	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			02/24/16 13:58	1
tert-Butylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 13:58	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/24/16 13:58	1
Tetrachloroethene	ND		1.00		ug/L			02/24/16 13:58	1
Toluene	ND		1.00		ug/L			02/24/16 13:58	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/24/16 13:58	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/24/16 13:58	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/24/16 13:58	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/24/16 13:58	1
Trichloroethene	ND		1.00		ug/L			02/24/16 13:58	1
Trichlorofluoromethane	ND		1.00		ug/L			02/24/16 13:58	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/24/16 13:58	1
1,2,4-Trimethylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/24/16 13:58	1
Vinyl chloride	ND		1.00		ug/L			02/24/16 13:58	1
Xylenes, Total	ND		2.00		ug/L			02/24/16 13:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*95*		*72 - 136*		*02/24/16 13:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 137*		*02/24/16 13:58*	*1*
Toluene-d8 (Surr)	*99*		*74 - 120*		*02/24/16 13:58*	*1*
Bromofluorobenzene	*109*		*70 - 131*		*02/24/16 13:58*	*1*

Lab Sample ID: LCS 460-352174/4
Matrix: Water
Analysis Batch: 352174

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	93.03		ug/L		93	19 - 150
Benzene	20.0	19.86		ug/L		99	76 - 125
Bromobenzene	20.0	18.64		ug/L		93	77 - 120
Bromochloromethane	20.0	18.77		ug/L		94	71 - 137
Bromodichloromethane	20.0	18.99		ug/L		95	78 - 127
Bromoform	20.0	18.14		ug/L		91	65 - 124
Bromomethane	20.0	18.89		ug/L		94	10 - 150
2-Butanone (MEK)	100	89.71		ug/L		90	56 - 150
Carbon disulfide	20.0	18.24		ug/L		91	69 - 131
Carbon tetrachloride	20.0	18.98		ug/L		95	71 - 138
Chlorobenzene	20.0	19.08		ug/L		95	80 - 120
Chlorodibromomethane	20.0	18.83		ug/L		94	78 - 120
Chloroethane	20.0	20.43		ug/L		102	40 - 150
Chloroform	20.0	18.91		ug/L		95	81 - 127
Chloromethane	20.0	19.63		ug/L		98	45 - 150
2-Chlorotoluene	20.0	19.79		ug/L		99	70 - 130

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

Lab Sample ID: LCS 460-352174/4
Matrix: Water
Analysis Batch: 352174

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	19.97		ug/L		100	70 - 129
cis-1,2-Dichloroethene	20.0	18.29		ug/L		91	82 - 127
cis-1,3-Dichloropropene	20.0	20.18		ug/L		101	72 - 125
1,2-Dibromo-3-Chloropropane	20.0	19.63		ug/L		98	55 - 133
1,2-Dibromoethane (EDB)	20.0	19.34		ug/L		97	80 - 120
Dibromomethane	20.0	18.97		ug/L		95	80 - 130
1,2-Dichlorobenzene	20.0	19.30		ug/L		97	80 - 121
1,3-Dichlorobenzene	20.0	19.26		ug/L		96	80 - 120
1,4-Dichlorobenzene	20.0	18.48		ug/L		92	79 - 120
Dichlorodifluoromethane	20.0	19.15		ug/L		96	32 - 150
1,1-Dichloroethane	20.0	19.21		ug/L		96	77 - 129
1,2-Dichloroethane	20.0	19.27		ug/L		96	73 - 131
1,1-Dichloroethene	20.0	18.40		ug/L		92	67 - 133
1,2-Dichloropropane	20.0	19.21		ug/L		96	75 - 129
1,3-Dichloropropane	20.0	19.85		ug/L		99	75 - 123
2,2-Dichloropropane	20.0	18.76		ug/L		94	66 - 136
1,1-Dichloropropene	20.0	19.39		ug/L		97	74 - 132
Diisopropyl ether	20.0	19.95		ug/L		100	67 - 140
Ethylbenzene	20.0	18.97		ug/L		95	80 - 120
Ethyl tert-butyl ether	20.0	19.46		ug/L		97	76 - 130
Hexachlorobutadiene	20.0	18.79		ug/L		94	49 - 150
2-Hexanone	100	92.95		ug/L		93	64 - 150
Isopropylbenzene	20.0	19.41		ug/L		97	80 - 127
Methylene Chloride	20.0	17.81		ug/L		89	80 - 126
4-Methyl-2-pentanone (MIBK)	100	95.53		ug/L		96	77 - 130
Methyl tert-butyl ether	20.0	19.63		ug/L		98	78 - 129
Naphthalene	20.0	21.41		ug/L		107	66 - 133
n-Butylbenzene	20.0	19.73		ug/L		99	66 - 139
N-Propylbenzene	20.0	19.99		ug/L		100	70 - 133
p-Isopropyltoluene	20.0	19.42		ug/L		97	65 - 133
sec-Butylbenzene	20.0	20.15		ug/L		101	70 - 132
Styrene	20.0	19.32		ug/L		97	75 - 124
Tert-amyl methyl ether	20.0	19.21		ug/L		96	77 - 129
tert-Butyl alcohol (TBA)	200	188.0		ug/L		94	68 - 141
tert-Butylbenzene	20.0	19.46		ug/L		97	70 - 127
1,1,1,2-Tetrachloroethane	20.0	19.05		ug/L		95	78 - 121
1,1,2,2-Tetrachloroethane	20.0	19.48		ug/L		97	65 - 128
Tetrachloroethene	20.0	19.02		ug/L		95	71 - 132
Toluene	20.0	19.53		ug/L		98	80 - 120
trans-1,2-Dichloroethene	20.0	18.35		ug/L		92	78 - 127
trans-1,3-Dichloropropene	20.0	19.56		ug/L		98	69 - 125
1,2,3-Trichlorobenzene	20.0	19.56		ug/L		98	64 - 142
1,2,4-Trichlorobenzene	20.0	19.81		ug/L		99	66 - 137
1,1,1-Trichloroethane	20.0	18.90		ug/L		95	76 - 131
1,1,2-Trichloroethane	20.0	19.95		ug/L		100	77 - 122
Trichloroethene	20.0	18.70		ug/L		94	77 - 127
Trichlorofluoromethane	20.0	19.49		ug/L		97	50 - 150
1,2,3-Trichloropropane	20.0	19.61		ug/L		98	69 - 125

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

Lab Sample ID: LCS 460-352174/4
Matrix: Water
Analysis Batch: 352174

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	19.20		ug/L		96	74 - 127
1,3,5-Trimethylbenzene	20.0	19.52		ug/L		98	68 - 130
Vinyl chloride	20.0	19.34		ug/L		97	53 - 142
Xylenes, Total	40.0	38.10		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*90*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*92*		*70 - 137*
Toluene-d8 (Surr)	*94*		*74 - 120*
Bromofluorobenzene	*103*		*70 - 131*

Lab Sample ID: 490-97587-4 MS
Matrix: Ground Water
Analysis Batch: 352174

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		1000	881.0		ug/L		88	19 - 150
Benzene	20.9		200	224.4		ug/L		102	76 - 125
Bromobenzene	ND		200	190.4		ug/L		95	77 - 120
Bromochloromethane	ND		200	191.4		ug/L		96	71 - 137
Bromodichloromethane	ND		200	190.8		ug/L		95	78 - 127
Bromoform	ND		200	181.6		ug/L		91	65 - 124
Bromomethane	ND		200	178.4		ug/L		89	10 - 150
2-Butanone (MEK)	ND		1000	879.2		ug/L		88	56 - 150
Carbon disulfide	ND		200	190.4		ug/L		95	69 - 131
Carbon tetrachloride	ND		200	201.7		ug/L		101	71 - 138
Chlorobenzene	ND		200	192.3		ug/L		96	80 - 120
Chlorodibromomethane	ND		200	186.3		ug/L		93	78 - 120
Chloroethane	ND		200	177.2		ug/L		89	40 - 150
Chloroform	ND		200	193.9		ug/L		97	81 - 127
Chloromethane	ND		200	228.6		ug/L		114	45 - 150
2-Chlorotoluene	ND		200	196.6		ug/L		98	70 - 130
4-Chlorotoluene	ND		200	197.3		ug/L		99	70 - 129
cis-1,2-Dichloroethene	ND		200	186.6		ug/L		93	82 - 127
cis-1,3-Dichloropropene	ND		200	198.3		ug/L		99	72 - 125
1,2-Dibromo-3-Chloropropane	ND		200	197.6		ug/L		99	55 - 133
1,2-Dibromoethane (EDB)	ND		200	192.1		ug/L		96	80 - 120
Dibromomethane	ND		200	190.6		ug/L		95	80 - 130
1,2-Dichlorobenzene	ND		200	190.4		ug/L		95	80 - 121
1,3-Dichlorobenzene	ND		200	193.5		ug/L		97	80 - 120
1,4-Dichlorobenzene	ND		200	186.8		ug/L		93	79 - 120
Dichlorodifluoromethane	ND		200	205.1		ug/L		103	32 - 150
1,1-Dichloroethane	ND		200	196.4		ug/L		98	77 - 129
1,2-Dichloroethane	ND		200	198.1		ug/L		99	73 - 131
1,1-Dichloroethene	ND		200	194.4		ug/L		97	67 - 133
1,2-Dichloropropane	ND		200	197.5		ug/L		99	75 - 129
1,3-Dichloropropane	ND		200	197.1		ug/L		99	75 - 123
2,2-Dichloropropane	ND		200	197.4		ug/L		99	66 - 136

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

Lab Sample ID: 490-97587-4 MS
Matrix: Ground Water
Analysis Batch: 352174

Client Sample ID: MW-1A
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloropropene	ND		200	199.0		ug/L		99	74 - 132
Diisopropyl ether	ND		200	203.8		ug/L		102	67 - 140
Ethylbenzene	397	F1	200	554.4	F1	ug/L		79	80 - 120
Ethyl tert-butyl ether	ND		200	199.7		ug/L		100	76 - 130
Hexachlorobutadiene	ND		200	187.1		ug/L		94	49 - 150
2-Hexanone	ND		1000	951.5		ug/L		95	64 - 150
Isopropylbenzene	26.2		200	222.2		ug/L		98	80 - 127
Methylene Chloride	ND		200	175.3		ug/L		88	80 - 126
4-Methyl-2-pentanone (MIBK)	ND		1000	992.7		ug/L		99	77 - 130
Methyl tert-butyl ether	ND		200	201.6		ug/L		100	78 - 129
Naphthalene	106		200	320.6		ug/L		108	66 - 133
n-Butylbenzene	ND		200	216.7		ug/L		108	66 - 139
N-Propylbenzene	49.2		200	244.9		ug/L		98	70 - 133
p-Isopropyltoluene	ND		200	202.0		ug/L		99	65 - 133
sec-Butylbenzene	5.14		200	210.9		ug/L		103	70 - 132
Styrene	ND		200	202.7		ug/L		101	75 - 124
Tert-amyl methyl ether	ND		200	200.3		ug/L		100	77 - 129
tert-Butyl alcohol (TBA)	ND		2000	1904		ug/L		95	68 - 141
tert-Butylbenzene	ND		200	199.0		ug/L		100	70 - 127
1,1,1,2-Tetrachloroethane	ND		200	188.0		ug/L		94	78 - 121
1,1,2,2-Tetrachloroethane	ND		200	194.3		ug/L		97	65 - 128
Tetrachloroethene	ND		200	193.1		ug/L		97	71 - 132
Toluene	633	F1	200	791.0	F1	ug/L		79	80 - 120
trans-1,2-Dichloroethene	ND		200	188.7		ug/L		94	78 - 127
trans-1,3-Dichloropropene	ND		200	193.2		ug/L		97	69 - 125
1,2,3-Trichlorobenzene	ND		200	191.2		ug/L		96	64 - 142
1,2,4-Trichlorobenzene	ND		200	193.1		ug/L		97	66 - 137
1,1,1-Trichloroethane	ND		200	198.0		ug/L		99	76 - 131
1,1,2-Trichloroethane	ND		200	198.7		ug/L		99	77 - 122
Trichloroethene	ND		200	192.1		ug/L		96	77 - 127
Trichlorofluoromethane	ND		200	229.0		ug/L		115	50 - 150
1,2,3-Trichloropropane	ND		200	194.8		ug/L		97	69 - 125
1,2,4-Trimethylbenzene	719	F1	200	844.6	F1	ug/L		63	74 - 127
1,3,5-Trimethylbenzene	209		200	387.7		ug/L		89	68 - 130
Vinyl chloride	ND		200	211.8		ug/L		106	53 - 142
Xylenes, Total	1650		400	1882	4	ug/L		57	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*94*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*95*		*70 - 137*
Toluene-d8 (Surr)	*97*		*74 - 120*
Bromofluorobenzene	*107*		*70 - 131*

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

Lab Sample ID: 490-97587-4 MSD
Matrix: Ground Water
Analysis Batch: 352174

Client Sample ID: MW-1A
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		1000	916.0		ug/L		92	19 - 150	4	30
Benzene	20.9		200	231.7		ug/L		105	76 - 125	3	30
Bromobenzene	ND		200	200.2		ug/L		100	77 - 120	5	30
Bromochloromethane	ND		200	198.2		ug/L		99	71 - 137	4	30
Bromodichloromethane	ND		200	198.8		ug/L		99	78 - 127	4	30
Bromoform	ND		200	183.9		ug/L		92	65 - 124	1	30
Bromomethane	ND		200	212.6		ug/L		106	10 - 150	17	30
2-Butanone (MEK)	ND		1000	942.1		ug/L		94	56 - 150	7	30
Carbon disulfide	ND		200	200.3		ug/L		100	69 - 131	5	30
Carbon tetrachloride	ND		200	207.7		ug/L		104	71 - 138	3	30
Chlorobenzene	ND		200	201.1		ug/L		101	80 - 120	4	30
Chlorodibromomethane	ND		200	194.5		ug/L		97	78 - 120	4	30
Chloroethane	ND		200	221.5		ug/L		111	40 - 150	22	30
Chloroform	ND		200	208.8		ug/L		104	81 - 127	7	30
Chloromethane	ND		200	239.3		ug/L		120	45 - 150	5	30
2-Chlorotoluene	ND		200	209.9		ug/L		105	70 - 130	7	30
4-Chlorotoluene	ND		200	212.8		ug/L		106	70 - 129	8	30
cis-1,2-Dichloroethene	ND		200	201.3		ug/L		101	82 - 127	8	30
cis-1,3-Dichloropropene	ND		200	204.6		ug/L		102	72 - 125	3	30
1,2-Dibromo-3-Chloropropane	ND		200	200.5		ug/L		100	55 - 133	1	30
1,2-Dibromoethane (EDB)	ND		200	199.1		ug/L		100	80 - 120	4	30
Dibromomethane	ND		200	201.0		ug/L		101	80 - 130	5	30
1,2-Dichlorobenzene	ND		200	203.3		ug/L		102	80 - 121	7	30
1,3-Dichlorobenzene	ND		200	205.9		ug/L		103	80 - 120	6	30
1,4-Dichlorobenzene	ND		200	201.7		ug/L		101	79 - 120	8	30
Dichlorodifluoromethane	ND		200	209.7		ug/L		105	32 - 150	2	30
1,1-Dichloroethane	ND		200	209.6		ug/L		105	77 - 129	7	30
1,2-Dichloroethane	ND		200	205.4		ug/L		103	73 - 131	4	30
1,1-Dichloroethene	ND		200	205.1		ug/L		103	67 - 133	5	30
1,2-Dichloropropane	ND		200	206.4		ug/L		103	75 - 129	4	30
1,3-Dichloropropane	ND		200	204.1		ug/L		102	75 - 123	4	30
2,2-Dichloropropane	ND		200	201.2		ug/L		101	66 - 136	2	30
1,1-Dichloropropene	ND		200	208.5		ug/L		104	74 - 132	5	30
Diisopropyl ether	ND		200	215.6		ug/L		108	67 - 140	6	30
Ethylbenzene	397	F1	200	561.9		ug/L		83	80 - 120	1	30
Ethyl tert-butyl ether	ND		200	208.6		ug/L		104	76 - 130	4	30
Hexachlorobutadiene	ND		200	202.5		ug/L		101	49 - 150	8	30
2-Hexanone	ND		1000	1005		ug/L		100	64 - 150	5	30
Isopropylbenzene	26.2		200	234.3		ug/L		104	80 - 127	5	30
Methylene Chloride	ND		200	184.7		ug/L		92	80 - 126	5	30
4-Methyl-2-pentanone (MIBK)	ND		1000	1045		ug/L		105	77 - 130	5	30
Methyl tert-butyl ether	ND		200	208.9		ug/L		104	78 - 129	4	30
Naphthalene	106		200	324.2		ug/L		109	66 - 133	1	30
n-Butylbenzene	ND		200	227.5		ug/L		114	66 - 139	5	30
N-Propylbenzene	49.2		200	257.9		ug/L		104	70 - 133	5	30
p-Isopropyltoluene	ND		200	216.1		ug/L		106	65 - 133	7	30
sec-Butylbenzene	5.14		200	220.1		ug/L		107	70 - 132	4	30
Styrene	ND		200	214.4		ug/L		107	75 - 124	6	30

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

Lab Sample ID: 490-97587-4 MSD
Matrix: Ground Water
Analysis Batch: 352174

Client Sample ID: MW-1A
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		200	206.2		ug/L		103	77 - 129	3	30
tert-Butyl alcohol (TBA)	ND		2000	1972		ug/L		99	68 - 141	4	30
tert-Butylbenzene	ND		200	210.6		ug/L		105	70 - 127	6	30
1,1,1,2-Tetrachloroethane	ND		200	197.0		ug/L		99	78 - 121	5	30
1,1,2,2-Tetrachloroethane	ND		200	202.2		ug/L		101	65 - 128	4	30
Tetrachloroethene	ND		200	206.0		ug/L		103	71 - 132	6	30
Toluene	633	F1	200	797.9		ug/L		83	80 - 120	1	30
trans-1,2-Dichloroethene	ND		200	199.0		ug/L		100	78 - 127	5	30
trans-1,3-Dichloropropene	ND		200	202.4		ug/L		101	69 - 125	5	30
1,2,3-Trichlorobenzene	ND		200	199.8		ug/L		100	64 - 142	4	30
1,2,4-Trichlorobenzene	ND		200	199.7		ug/L		100	66 - 137	3	30
1,1,1-Trichloroethane	ND		200	205.4		ug/L		103	76 - 131	4	30
1,1,2-Trichloroethane	ND		200	205.8		ug/L		103	77 - 122	4	30
Trichloroethene	ND		200	204.2		ug/L		102	77 - 127	6	30
Trichlorofluoromethane	ND		200	236.2		ug/L		118	50 - 150	3	30
1,2,3-Trichloropropane	ND		200	194.8		ug/L		97	69 - 125	0	30
1,2,4-Trimethylbenzene	719	F1	200	869.4		ug/L		75	74 - 127	3	30
1,3,5-Trimethylbenzene	209		200	401.6		ug/L		96	68 - 130	4	30
Vinyl chloride	ND		200	215.2		ug/L		108	53 - 142	2	30
Xylenes, Total	1650		400	1927	4	ug/L		69	80 - 120	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*93*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 137*
Toluene-d8 (Surr)	*95*		*74 - 120*
Bromofluorobenzene	*106*		*70 - 131*

Lab Sample ID: MB 460-352426/7
Matrix: Water
Analysis Batch: 352426

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			02/25/16 12:39	1
Benzene	ND		1.00		ug/L			02/25/16 12:39	1
Bromobenzene	ND		1.00		ug/L			02/25/16 12:39	1
Bromochloromethane	ND		1.00		ug/L			02/25/16 12:39	1
Bromodichloromethane	ND		1.00		ug/L			02/25/16 12:39	1
Bromoform	ND		1.00		ug/L			02/25/16 12:39	1
Bromomethane	ND		1.00		ug/L			02/25/16 12:39	1
2-Butanone (MEK)	ND		5.00		ug/L			02/25/16 12:39	1
Carbon disulfide	ND		1.00		ug/L			02/25/16 12:39	1
Carbon tetrachloride	ND		1.00		ug/L			02/25/16 12:39	1
Chlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
Chlorodibromomethane	ND		1.00		ug/L			02/25/16 12:39	1
Chloroethane	ND		1.00		ug/L			02/25/16 12:39	1
Chloroform	ND		1.00		ug/L			02/25/16 12:39	1
Chloromethane	ND		1.00		ug/L			02/25/16 12:39	1
2-Chlorotoluene	ND		1.00		ug/L			02/25/16 12:39	1

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

Lab Sample ID: MB 460-352426/7
Matrix: Water
Analysis Batch: 352426

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			02/25/16 12:39	1
cis-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 12:39	1
cis-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 12:39	1
1,2-Dibromo-3-Chloropropane	ND		1.00		ug/L			02/25/16 12:39	1
1,2-Dibromoethane (EDB)	ND		1.00		ug/L			02/25/16 12:39	1
Dibromomethane	ND		1.00		ug/L			02/25/16 12:39	1
1,2-Dichlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
1,3-Dichlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
1,4-Dichlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
Dichlorodifluoromethane	ND		1.00		ug/L			02/25/16 12:39	1
1,1-Dichloroethane	ND		1.00		ug/L			02/25/16 12:39	1
1,2-Dichloroethane	ND		1.00		ug/L			02/25/16 12:39	1
1,1-Dichloroethene	ND		1.00		ug/L			02/25/16 12:39	1
1,2-Dichloropropane	ND		1.00		ug/L			02/25/16 12:39	1
1,3-Dichloropropane	ND		1.00		ug/L			02/25/16 12:39	1
2,2-Dichloropropane	ND		1.00		ug/L			02/25/16 12:39	1
1,1-Dichloropropene	ND		1.00		ug/L			02/25/16 12:39	1
Diisopropyl ether	ND		1.00		ug/L			02/25/16 12:39	1
Ethylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
Ethyl tert-butyl ether	ND		1.00		ug/L			02/25/16 12:39	1
Hexachlorobutadiene	ND		1.00		ug/L			02/25/16 12:39	1
2-Hexanone	ND		5.00		ug/L			02/25/16 12:39	1
Isopropylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
Methylene Chloride	ND		5.00		ug/L			02/25/16 12:39	1
4-Methyl-2-pentanone (MIBK)	ND		5.00		ug/L			02/25/16 12:39	1
Methyl tert-butyl ether	ND		1.00		ug/L			02/25/16 12:39	1
Naphthalene	ND		1.00		ug/L			02/25/16 12:39	1
n-Butylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
N-Propylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
p-Isopropyltoluene	ND		1.00		ug/L			02/25/16 12:39	1
sec-Butylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
Styrene	ND		1.00		ug/L			02/25/16 12:39	1
Tert-amyl methyl ether	ND		1.00		ug/L			02/25/16 12:39	1
tert-Butyl alcohol (TBA)	ND		10.0		ug/L			02/25/16 12:39	1
tert-Butylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
1,1,1,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 12:39	1
1,1,2,2-Tetrachloroethane	ND		1.00		ug/L			02/25/16 12:39	1
Tetrachloroethene	ND		1.00		ug/L			02/25/16 12:39	1
Toluene	ND		1.00		ug/L			02/25/16 12:39	1
trans-1,2-Dichloroethene	ND		1.00		ug/L			02/25/16 12:39	1
trans-1,3-Dichloropropene	ND		1.00		ug/L			02/25/16 12:39	1
1,2,3-Trichlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
1,2,4-Trichlorobenzene	ND		1.00		ug/L			02/25/16 12:39	1
1,1,1-Trichloroethane	ND		1.00		ug/L			02/25/16 12:39	1
1,1,2-Trichloroethane	ND		1.00		ug/L			02/25/16 12:39	1
Trichloroethene	ND		1.00		ug/L			02/25/16 12:39	1
Trichlorofluoromethane	ND		1.00		ug/L			02/25/16 12:39	1
1,2,3-Trichloropropane	ND		1.00		ug/L			02/25/16 12:39	1

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

Lab Sample ID: MB 460-352426/7
Matrix: Water
Analysis Batch: 352426

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			02/25/16 12:39	1
1,3,5-Trimethylbenzene	ND		1.00		ug/L			02/25/16 12:39	1
Vinyl chloride	ND		1.00		ug/L			02/25/16 12:39	1
Xylenes, Total	ND		2.00		ug/L			02/25/16 12:39	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*87*		*72 - 136*		*02/25/16 12:39*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*70 - 137*		*02/25/16 12:39*	*1*
Toluene-d8 (Surr)	*97*		*74 - 120*		*02/25/16 12:39*	*1*
Bromofluorobenzene	*87*		*70 - 131*		*02/25/16 12:39*	*1*

Lab Sample ID: LCS 460-352426/21
Matrix: Water
Analysis Batch: 352426

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	100	70.34		ug/L		70	19 - 150
Benzene	20.0	20.89		ug/L		104	76 - 125
Bromobenzene	20.0	19.39		ug/L		97	77 - 120
Bromochloromethane	20.0	15.55		ug/L		78	71 - 137
Bromodichloromethane	20.0	16.00		ug/L		80	78 - 127
Bromoform	20.0	16.79		ug/L		84	65 - 124
Bromomethane	20.0	9.691		ug/L		48	10 - 150
2-Butanone (MEK)	100	81.76		ug/L		82	56 - 150
Carbon disulfide	20.0	15.46		ug/L		77	69 - 131
Carbon tetrachloride	20.0	16.42		ug/L		82	71 - 138
Chlorobenzene	20.0	18.40		ug/L		92	80 - 120
Chlorodibromomethane	20.0	17.80		ug/L		89	78 - 120
Chloroethane	20.0	19.42		ug/L		97	40 - 150
Chloroform	20.0	16.58		ug/L		83	81 - 127
Chloromethane	20.0	16.13		ug/L		81	45 - 150
2-Chlorotoluene	20.0	20.87		ug/L		104	70 - 130
4-Chlorotoluene	20.0	20.83		ug/L		104	70 - 129
cis-1,2-Dichloroethene	20.0	16.61		ug/L		83	82 - 127
cis-1,3-Dichloropropene	20.0	20.01		ug/L		100	72 - 125
1,2-Dibromo-3-Chloropropane	20.0	20.32		ug/L		102	55 - 133
1,2-Dibromoethane (EDB)	20.0	19.19		ug/L		96	80 - 120
Dibromomethane	20.0	16.29		ug/L		81	80 - 130
1,2-Dichlorobenzene	20.0	19.72		ug/L		99	80 - 121
1,3-Dichlorobenzene	20.0	19.39		ug/L		97	80 - 120
1,4-Dichlorobenzene	20.0	18.77		ug/L		94	79 - 120
Dichlorodifluoromethane	20.0	17.20		ug/L		86	32 - 150
1,1-Dichloroethane	20.0	17.05		ug/L		85	77 - 129
1,2-Dichloroethane	20.0	16.40		ug/L		82	73 - 131
1,1-Dichloroethene	20.0	16.31		ug/L		82	67 - 133
1,2-Dichloropropane	20.0	17.22		ug/L		86	75 - 129
1,3-Dichloropropane	20.0	19.84		ug/L		99	75 - 123
2,2-Dichloropropane	20.0	17.89		ug/L		89	66 - 136

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

Lab Sample ID: LCS 460-352426/21
Matrix: Water
Analysis Batch: 352426

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	17.09		ug/L		85	74 - 132
Diisopropyl ether	20.0	17.69		ug/L		88	67 - 140
Ethylbenzene	20.0	19.12		ug/L		96	80 - 120
Ethyl tert-butyl ether	20.0	17.47		ug/L		87	76 - 130
Hexachlorobutadiene	20.0	18.05		ug/L		90	49 - 150
2-Hexanone	100	83.44		ug/L		83	64 - 150
Isopropylbenzene	20.0	19.08		ug/L		95	80 - 127
Methylene Chloride	20.0	15.82	*	ug/L		79	80 - 126
4-Methyl-2-pentanone (MIBK)	100	87.61		ug/L		88	77 - 130
Methyl tert-butyl ether	20.0	16.35		ug/L		82	78 - 129
Naphthalene	20.0	21.43		ug/L		107	66 - 133
n-Butylbenzene	20.0	21.81		ug/L		109	66 - 139
N-Propylbenzene	20.0	21.38		ug/L		107	70 - 133
p-Isopropyltoluene	20.0	20.58		ug/L		103	65 - 133
sec-Butylbenzene	20.0	21.11		ug/L		106	70 - 132
Styrene	20.0	18.84		ug/L		94	75 - 124
Tert-amyl methyl ether	20.0	17.00		ug/L		85	77 - 129
tert-Butyl alcohol (TBA)	200	253.6		ug/L		127	68 - 141
tert-Butylbenzene	20.0	20.24		ug/L		101	70 - 127
1,1,1,2-Tetrachloroethane	20.0	17.92		ug/L		90	78 - 121
1,1,2,2-Tetrachloroethane	20.0	22.26		ug/L		111	65 - 128
Tetrachloroethene	20.0	18.52		ug/L		93	71 - 132
Toluene	20.0	19.54		ug/L		98	80 - 120
trans-1,2-Dichloroethene	20.0	16.15		ug/L		81	78 - 127
trans-1,3-Dichloropropene	20.0	19.79		ug/L		99	69 - 125
1,2,3-Trichlorobenzene	20.0	19.42		ug/L		97	64 - 142
1,2,4-Trichlorobenzene	20.0	19.30		ug/L		97	66 - 137
1,1,1-Trichloroethane	20.0	16.56		ug/L		83	76 - 131
1,1,2-Trichloroethane	20.0	19.99		ug/L		100	77 - 122
Trichloroethene	20.0	16.09		ug/L		80	77 - 127
Trichlorofluoromethane	20.0	17.84		ug/L		89	50 - 150
1,2,3-Trichloropropane	20.0	20.26		ug/L		101	69 - 125
1,2,4-Trimethylbenzene	20.0	20.97		ug/L		105	74 - 127
1,3,5-Trimethylbenzene	20.0	20.65		ug/L		103	68 - 130
Vinyl chloride	20.0	17.35		ug/L		87	53 - 142
Xylenes, Total	40.0	37.97		ug/L		95	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*87*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*89*		*70 - 137*
Toluene-d8 (Surr)	*97*		*74 - 120*
Bromofluorobenzene	*85*		*70 - 131*

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

Lab Sample ID: 490-97587-B-13 MS
Matrix: Ground Water
Analysis Batch: 352426

Client Sample ID: 490-97587-B-13 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		1000	701.9		ug/L		70	19 - 150
Benzene	93.1		200	290.3		ug/L		99	76 - 125
Bromobenzene	ND		200	184.4		ug/L		92	77 - 120
Bromochloromethane	ND		200	153.8		ug/L		77	71 - 137
Bromodichloromethane	ND		200	166.0		ug/L		83	78 - 127
Bromoform	ND		200	162.5		ug/L		81	65 - 124
Bromomethane	ND		200	77.75		ug/L		39	10 - 150
2-Butanone (MEK)	ND		1000	783.4		ug/L		78	56 - 150
Carbon disulfide	ND		200	149.3		ug/L		75	69 - 131
Carbon tetrachloride	ND		200	165.7		ug/L		83	71 - 138
Chlorobenzene	ND		200	180.1		ug/L		90	80 - 120
Chlorodibromomethane	ND		200	176.9		ug/L		88	78 - 120
Chloroethane	ND		200	180.3		ug/L		90	40 - 150
Chloroform	8.05		200	171.7		ug/L		82	81 - 127
Chloromethane	ND		200	178.6		ug/L		89	45 - 150
2-Chlorotoluene	ND		200	229.1		ug/L		115	70 - 130
4-Chlorotoluene	ND		200	201.4		ug/L		101	70 - 129
cis-1,2-Dichloroethene	ND	F1	200	161.4	F1	ug/L		81	82 - 127
cis-1,3-Dichloropropene	ND		200	175.6		ug/L		88	72 - 125
1,2-Dibromo-3-Chloropropane	ND		200	178.1		ug/L		89	55 - 133
1,2-Dibromoethane (EDB)	ND		200	187.0		ug/L		93	80 - 120
Dibromomethane	ND		200	159.4		ug/L		80	80 - 130
1,2-Dichlorobenzene	ND		200	190.9		ug/L		95	80 - 121
1,3-Dichlorobenzene	ND		200	188.4		ug/L		94	80 - 120
1,4-Dichlorobenzene	ND		200	180.9		ug/L		90	79 - 120
Dichlorodifluoromethane	ND		200	170.3		ug/L		85	32 - 150
1,1-Dichloroethane	ND		200	166.3		ug/L		83	77 - 129
1,2-Dichloroethane	ND		200	170.3		ug/L		85	73 - 131
1,1-Dichloroethene	ND		200	154.0		ug/L		77	67 - 133
1,2-Dichloropropane	ND		200	166.1		ug/L		83	75 - 129
1,3-Dichloropropane	ND		200	190.2		ug/L		95	75 - 123
2,2-Dichloropropane	ND		200	162.5		ug/L		81	66 - 136
1,1-Dichloropropene	ND		200	164.6		ug/L		82	74 - 132
Diisopropyl ether	ND		200	165.3		ug/L		83	67 - 140
Ethylbenzene	9.51		200	195.4		ug/L		93	80 - 120
Ethyl tert-butyl ether	ND		200	169.1		ug/L		85	76 - 130
Hexachlorobutadiene	ND		200	162.6		ug/L		81	49 - 150
2-Hexanone	ND		1000	871.1		ug/L		87	64 - 150
Isopropylbenzene	ND		200	187.6		ug/L		94	80 - 127
Methylene Chloride	ND		200	181.8		ug/L		91	80 - 126
4-Methyl-2-pentanone (MIBK)	ND		1000	883.7		ug/L		88	77 - 130
Methyl tert-butyl ether	12.6		200	176.2		ug/L		82	78 - 129
Naphthalene	41.9		200	242.1		ug/L		100	66 - 133
n-Butylbenzene	ND		200	202.2		ug/L		101	66 - 139
N-Propylbenzene	ND		200	205.2		ug/L		103	70 - 133
p-Isopropyltoluene	ND		200	198.8		ug/L		99	65 - 133
sec-Butylbenzene	ND		200	198.1		ug/L		99	70 - 132
Styrene	ND		200	186.5		ug/L		93	75 - 124

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

Lab Sample ID: 490-97587-B-13 MS
Matrix: Ground Water
Analysis Batch: 352426

Client Sample ID: 490-97587-B-13 MS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Tert-amyl methyl ether	ND		200	164.0		ug/L		82	77 - 129
tert-Butyl alcohol (TBA)	66.6		2000	2169		ug/L		105	68 - 141
tert-Butylbenzene	ND		200	196.3		ug/L		98	70 - 127
1,1,1,2-Tetrachloroethane	ND		200	181.8		ug/L		91	78 - 121
1,1,2,2-Tetrachloroethane	ND		200	208.2		ug/L		104	65 - 128
Tetrachloroethene	ND		200	174.5		ug/L		87	71 - 132
Toluene	1120		200	1357	4	ug/L		120	80 - 120
trans-1,2-Dichloroethene	ND	F1	200	147.6	F1	ug/L		74	78 - 127
trans-1,3-Dichloropropene	ND		200	177.5		ug/L		89	69 - 125
1,2,3-Trichlorobenzene	ND		200	165.8		ug/L		83	64 - 142
1,2,4-Trichlorobenzene	ND		200	171.1		ug/L		86	66 - 137
1,1,1-Trichloroethane	ND		200	167.0		ug/L		84	76 - 131
1,1,2-Trichloroethane	ND		200	191.7		ug/L		96	77 - 122
Trichloroethene	ND		200	156.0		ug/L		78	77 - 127
Trichlorofluoromethane	ND		200	192.2		ug/L		96	50 - 150
1,2,3-Trichloropropane	ND		200	187.6		ug/L		94	69 - 125
1,2,4-Trimethylbenzene	180		200	389.8		ug/L		105	74 - 127
1,3,5-Trimethylbenzene	72.4		200	272.9		ug/L		100	68 - 130
Vinyl chloride	ND		200	175.7		ug/L		88	53 - 142
Xylenes, Total	1360		400	1800		ug/L		109	80 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*74*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*79*		*70 - 137*
Toluene-d8 (Surr)	*83*		*74 - 120*
Bromofluorobenzene	*76*		*70 - 131*

Lab Sample ID: 490-97587-B-13 MSD
Matrix: Ground Water
Analysis Batch: 352426

Client Sample ID: 490-97587-B-13 MSD
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		1000	723.5		ug/L		72	19 - 150	3	30
Benzene	93.1		200	291.6		ug/L		99	76 - 125	0	30
Bromobenzene	ND		200	190.4		ug/L		95	77 - 120	3	30
Bromochloromethane	ND		200	148.5		ug/L		74	71 - 137	4	30
Bromodichloromethane	ND		200	162.9		ug/L		81	78 - 127	2	30
Bromoform	ND		200	164.2		ug/L		82	65 - 124	1	30
Bromomethane	ND		200	90.25		ug/L		45	10 - 150	15	30
2-Butanone (MEK)	ND		1000	811.3		ug/L		81	56 - 150	4	30
Carbon disulfide	ND		200	154.7		ug/L		77	69 - 131	4	30
Carbon tetrachloride	ND		200	166.6		ug/L		83	71 - 138	1	30
Chlorobenzene	ND		200	181.8		ug/L		91	80 - 120	1	30
Chlorodibromomethane	ND		200	179.6		ug/L		90	78 - 120	2	30
Chloroethane	ND		200	219.5		ug/L		110	40 - 150	20	30
Chloroform	8.05		200	170.0		ug/L		81	81 - 127	1	30
Chloromethane	ND		200	189.8		ug/L		95	45 - 150	6	30
2-Chlorotoluene	ND		200	236.1		ug/L		118	70 - 130	3	30

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

Lab Sample ID: 490-97587-B-13 MSD
Matrix: Ground Water
Analysis Batch: 352426

Client Sample ID: 490-97587-B-13 MSD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4-Chlorotoluene	ND		200	204.9		ug/L		102	70 - 129	2	30
cis-1,2-Dichloroethene	ND	F1	200	164.4		ug/L		82	82 - 127	2	30
cis-1,3-Dichloropropene	ND		200	180.5		ug/L		90	72 - 125	3	30
1,2-Dibromo-3-Chloropropane	ND		200	193.4		ug/L		97	55 - 133	8	30
1,2-Dibromoethane (EDB)	ND		200	188.6		ug/L		94	80 - 120	1	30
Dibromomethane	ND		200	159.9		ug/L		80	80 - 130	0	30
1,2-Dichlorobenzene	ND		200	193.7		ug/L		97	80 - 121	1	30
1,3-Dichlorobenzene	ND		200	191.4		ug/L		96	80 - 120	2	30
1,4-Dichlorobenzene	ND		200	184.1		ug/L		92	79 - 120	2	30
Dichlorodifluoromethane	ND		200	174.5		ug/L		87	32 - 150	2	30
1,1-Dichloroethane	ND		200	170.5		ug/L		85	77 - 129	3	30
1,2-Dichloroethane	ND		200	172.6		ug/L		86	73 - 131	1	30
1,1-Dichloroethene	ND		200	159.6		ug/L		80	67 - 133	4	30
1,2-Dichloropropane	ND		200	173.2		ug/L		87	75 - 129	4	30
1,3-Dichloropropane	ND		200	196.2		ug/L		98	75 - 123	3	30
2,2-Dichloropropane	ND		200	164.5		ug/L		82	66 - 136	1	30
1,1-Dichloropropene	ND		200	169.8		ug/L		85	74 - 132	3	30
Diisopropyl ether	ND		200	169.5		ug/L		85	67 - 140	3	30
Ethylbenzene	9.51		200	198.4		ug/L		94	80 - 120	2	30
Ethyl tert-butyl ether	ND		200	174.6		ug/L		87	76 - 130	3	30
Hexachlorobutadiene	ND		200	176.5		ug/L		88	49 - 150	8	30
2-Hexanone	ND		1000	875.2		ug/L		88	64 - 150	0	30
Isopropylbenzene	ND		200	192.8		ug/L		96	80 - 127	3	30
Methylene Chloride	ND		200	169.8		ug/L		85	80 - 126	7	30
4-Methyl-2-pentanone (MIBK)	ND		1000	917.6		ug/L		92	77 - 130	4	30
Methyl tert-butyl ether	12.6		200	176.5		ug/L		82	78 - 129	0	30
Naphthalene	41.9		200	257.7		ug/L		108	66 - 133	6	30
n-Butylbenzene	ND		200	210.2		ug/L		105	66 - 139	4	30
N-Propylbenzene	ND		200	210.6		ug/L		105	70 - 133	3	30
p-Isopropyltoluene	ND		200	205.9		ug/L		103	65 - 133	4	30
sec-Butylbenzene	ND		200	207.2		ug/L		104	70 - 132	4	30
Styrene	ND		200	192.1		ug/L		96	75 - 124	3	30
Tert-amyl methyl ether	ND		200	165.5		ug/L		83	77 - 129	1	30
tert-Butyl alcohol (TBA)	66.6		2000	2616		ug/L		127	68 - 141	19	30
tert-Butylbenzene	ND		200	199.1		ug/L		100	70 - 127	1	30
1,1,1,2-Tetrachloroethane	ND		200	177.0		ug/L		89	78 - 121	3	30
1,1,2,2-Tetrachloroethane	ND		200	216.6		ug/L		108	65 - 128	4	30
Tetrachloroethene	ND		200	176.4		ug/L		88	71 - 132	1	30
Toluene	1120		200	1368	4	ug/L		126	80 - 120	1	30
trans-1,2-Dichloroethene	ND	F1	200	157.4		ug/L		79	78 - 127	6	30
trans-1,3-Dichloropropene	ND		200	180.6		ug/L		90	69 - 125	2	30
1,2,3-Trichlorobenzene	ND		200	186.4		ug/L		93	64 - 142	12	30
1,2,4-Trichlorobenzene	ND		200	188.5		ug/L		94	66 - 137	10	30
1,1,1-Trichloroethane	ND		200	169.8		ug/L		85	76 - 131	2	30
1,1,2-Trichloroethane	ND		200	194.4		ug/L		97	77 - 122	1	30
Trichloroethene	ND		200	161.1		ug/L		81	77 - 127	3	30
Trichlorofluoromethane	ND		200	191.7		ug/L		96	50 - 150	0	30
1,2,3-Trichloropropane	ND		200	189.9		ug/L		95	69 - 125	1	30

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

Lab Sample ID: 490-97587-B-13 MSD — **Client Sample ID: 490-97587-B-13 MSD**
Matrix: Ground Water — **Prep Type: Total/NA**
Analysis Batch: 352426

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2,4-Trimethylbenzene	180		200	395.8		ug/L		108	74 - 127	2	30
1,3,5-Trimethylbenzene	72.4		200	280.7		ug/L		104	68 - 130	3	30
Vinyl chloride	ND		200	181.8		ug/L		91	53 - 142	3	30
Xylenes, Total	1360		400	1827		ug/L		116	80 - 120	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Dibromofluoromethane (Surr)	*86*		*72 - 136*
1,2-Dichloroethane-d4 (Surr)	*91*		*70 - 137*
Toluene-d8 (Surr)	*95*		*74 - 120*
Bromofluorobenzene	*88*		*70 - 131*

Method: 9056A - Anions, Ion Chromatography

Lab Sample ID: MB 490-322270/3 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			03/08/16 07:31	1

Lab Sample ID: LCS 490-322270/4 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	96.85		mg/L		97	80 - 120

Lab Sample ID: LCSD 490-322270/5 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 322270

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	100	97.40		mg/L		97	80 - 120	1	20

Lab Sample ID: MB 490-323213/9 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323213

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		1.00		mg/L			03/11/16 02:03	1

Lab Sample ID: LCS 490-323213/10 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323213

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	100	109.6		mg/L		110	80 - 120

Method: 9056A - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCSD 490-323213/11 — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323213

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate			100	109.4		mg/L		109	80 - 120	0	20

Lab Sample ID: 490-97601-G-4 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323213

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Sulfate	ND		5000	5564		mg/L		111	80 - 120		

Lab Sample ID: 490-97601-G-4 MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 323213

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Sulfate	ND		5000	5550		mg/L		111	80 - 120	0	20

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 490-318100/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318327 — **Prep Batch: 318100**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/17/16 14:24	02/18/16 14:13	1

Lab Sample ID: LCS 490-318100/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318327 — **Prep Batch: 318100**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron			1.00	0.9704		mg/L		97	80 - 120		

Lab Sample ID: LCSD 490-318100/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318327 — **Prep Batch: 318100**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron			1.00	0.9943		mg/L		99	80 - 120	2	20

Lab Sample ID: 240-60877-H-1-B MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318327 — **Prep Batch: 318100**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Iron	ND		1.00	0.9673		mg/L		97	75 - 125		

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

Lab Sample ID: 240-60877-H-1-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318327 — **Prep Batch: 318100**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	ND		1.00	1.022		mg/L		102	75 - 125	5	20

Lab Sample ID: MB 490-318174/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318384 — **Prep Batch: 318174**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 09:34	02/19/16 09:17	1

Lab Sample ID: LCS 490-318174/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318384 — **Prep Batch: 318174**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	1.00	1.009		mg/L		101	80 - 120

Lab Sample ID: LCSD 490-318174/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 318384 — **Prep Batch: 318174**

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Iron	1.00	1.009		mg/L		101	80 - 120	0	20

Lab Sample ID: MB 490-318249/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 318762 — **Prep Batch: 318249**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	ND		0.100		mg/L		02/18/16 14:59	02/19/16 18:13	1

Lab Sample ID: LCS 490-318249/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 318762 — **Prep Batch: 318249**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	2.00	2.023		mg/L		101	80 - 120

Method: 353.2 - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 490-319949/6 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 319949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate/Nitrite	ND		0.100		mg/L			02/25/16 16:19	1

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

Lab Sample ID: LCS 490-319949/7
Matrix: Water
Analysis Batch: 319949

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	1.070		mg/L		107	90 - 110		

Lab Sample ID: LCSD 490-319949/8
Matrix: Water
Analysis Batch: 319949

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	1.080		mg/L		108	90 - 110	1	20

Lab Sample ID: 490-97587-10 MS
Matrix: Ground Water
Analysis Batch: 319949

Client Sample ID: MW-16
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate/Nitrite	1.53		0.996	2.530		mg/L		100	90 - 110		

QC Association Summary

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

TestAmerica Job ID: 490-97587-1

GC/MS VOA

Analysis Batch: 352086

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-2	MW-10	Total/NA	Ground Water	8260B	
490-97587-3	MW-12	Total/NA	Ground Water	8260B	
490-97587-5	MW-11	Total/NA	Ground Water	8260B	
490-97587-7	MW-13	Total/NA	Ground Water	8260B	
490-97587-8	MW-14	Total/NA	Ground Water	8260B	
490-97587-9	MW-15	Total/NA	Ground Water	8260B	
490-97587-10	MW-16	Total/NA	Ground Water	8260B	
LCS 460-352086/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 460-352086/4	Lab Control Sample Dup	Total/NA	Water	8260B	
MB 460-352086/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 352174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Total/NA	Ground Water	8260B	
490-97587-4	MW-1A	Total/NA	Ground Water	8260B	
490-97587-4 MS	MW-1A	Total/NA	Ground Water	8260B	
490-97587-4 MSD	MW-1A	Total/NA	Ground Water	8260B	
490-97587-6	DUP01	Total/NA	Ground Water	8260B	
LCS 460-352174/4	Lab Control Sample	Total/NA	Water	8260B	
MB 460-352174/7	Method Blank	Total/NA	Water	8260B	

Analysis Batch: 352426

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-12	MW-2A	Total/NA	Ground Water	8260B	
490-97587-14	MW-3A	Total/NA	Ground Water	8260B	
490-97587-16	MW-8	Total/NA	Ground Water	8260B	
490-97587-17	Rinse Blank	Total/NA	Water	8260B	
490-97587-18	Trip Blank	Total/NA	Water	8260B	
490-97587-B-13 MS	490-97587-B-13 MS	Total/NA	Ground Water	8260B	
490-97587-B-13 MSD	490-97587-B-13 MSD	Total/NA	Ground Water	8260B	
LCS 460-352426/21	Lab Control Sample	Total/NA	Water	8260B	
MB 460-352426/7	Method Blank	Total/NA	Water	8260B	

HPLC/IC

Analysis Batch: 322270

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-3	MW-12	Total/NA	Ground Water	9056A	
490-97587-4	MW-1A	Total/NA	Ground Water	9056A	
490-97587-5	MW-11	Total/NA	Ground Water	9056A	
490-97587-6	DUP01	Total/NA	Ground Water	9056A	
490-97587-7	MW-13	Total/NA	Ground Water	9056A	
490-97587-8	MW-14	Total/NA	Ground Water	9056A	
490-97587-9	MW-15	Total/NA	Ground Water	9056A	
490-97587-10	MW-16	Total/NA	Ground Water	9056A	
490-97587-12	MW-2A	Total/NA	Ground Water	9056A	
490-97587-14	MW-3A	Total/NA	Ground Water	9056A	
LCS 490-322270/4	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-322270/5	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-322270/3	Method Blank	Total/NA	Water	9056A	

HPLC/IC (Continued)

Analysis Batch: 323213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Total/NA	Ground Water	9056A	
490-97587-2	MW-10	Total/NA	Ground Water	9056A	
490-97601-G-4 MS	Matrix Spike	Total/NA	Water	9056A	
490-97601-G-4 MSD	Matrix Spike Duplicate	Total/NA	Water	9056A	
LCS 490-323213/10	Lab Control Sample	Total/NA	Water	9056A	
LCSD 490-323213/11	Lab Control Sample Dup	Total/NA	Water	9056A	
MB 490-323213/9	Method Blank	Total/NA	Water	9056A	

Metals

Filtration Batch: 318083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Dissolved	Ground Water	Filtration	
490-97587-2	MW-10	Dissolved	Ground Water	Filtration	
490-97587-3	MW-12	Dissolved	Ground Water	Filtration	
490-97587-4	MW-1A	Dissolved	Ground Water	Filtration	
490-97587-5	MW-11	Dissolved	Ground Water	Filtration	
490-97587-6	DUP01	Dissolved	Ground Water	Filtration	
490-97587-7	MW-13	Dissolved	Ground Water	Filtration	
490-97587-8	MW-14	Dissolved	Ground Water	Filtration	
490-97587-9	MW-15	Dissolved	Ground Water	Filtration	
490-97587-10	MW-16	Dissolved	Ground Water	Filtration	
490-97587-12	MW-2A	Dissolved	Ground Water	Filtration	
490-97587-14	MW-3A	Dissolved	Ground Water	Filtration	

Prep Batch: 318100

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60877-H-1-B MS	Matrix Spike	Total/NA	Water	3010A	
240-60877-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	3010A	
490-97587-1	MW-5A	Total/NA	Ground Water	3010A	
490-97587-2	MW-10	Total/NA	Ground Water	3010A	
490-97587-3	MW-12	Total/NA	Ground Water	3010A	
490-97587-4	MW-1A	Total/NA	Ground Water	3010A	
490-97587-5	MW-11	Total/NA	Ground Water	3010A	
490-97587-6	DUP01	Total/NA	Ground Water	3010A	
490-97587-7	MW-13	Total/NA	Ground Water	3010A	
490-97587-8	MW-14	Total/NA	Ground Water	3010A	
LCS 490-318100/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-318100/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-318100/1-A	Method Blank	Total/NA	Water	3010A	

Prep Batch: 318174

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-9	MW-15	Total/NA	Ground Water	3010A	
490-97587-10	MW-16	Total/NA	Ground Water	3010A	
490-97587-12	MW-2A	Total/NA	Ground Water	3010A	
490-97587-14	MW-3A	Total/NA	Ground Water	3010A	
LCS 490-318174/2-A	Lab Control Sample	Total/NA	Water	3010A	
LCSD 490-318174/3-A	Lab Control Sample Dup	Total/NA	Water	3010A	
MB 490-318174/1-A	Method Blank	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 318249

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Dissolved	Ground Water	3005A	318083
490-97587-2	MW-10	Dissolved	Ground Water	3005A	318083
490-97587-3	MW-12	Dissolved	Ground Water	3005A	318083
490-97587-4	MW-1A	Dissolved	Ground Water	3005A	318083
490-97587-5	MW-11	Dissolved	Ground Water	3005A	318083
490-97587-6	DUP01	Dissolved	Ground Water	3005A	318083
490-97587-7	MW-13	Dissolved	Ground Water	3005A	318083
490-97587-8	MW-14	Dissolved	Ground Water	3005A	318083
490-97587-9	MW-15	Dissolved	Ground Water	3005A	318083
490-97587-10	MW-16	Dissolved	Ground Water	3005A	318083
490-97587-12	MW-2A	Dissolved	Ground Water	3005A	318083
490-97587-14	MW-3A	Dissolved	Ground Water	3005A	318083
LCS 490-318249/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
MB 490-318249/1-A	Method Blank	Total Recoverable	Water	3005A	

Analysis Batch: 318327

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-60877-H-1-B MS	Matrix Spike	Total/NA	Water	6010B	318100
240-60877-H-1-C MSD	Matrix Spike Duplicate	Total/NA	Water	6010B	318100
490-97587-1	MW-5A	Total/NA	Ground Water	6010B	318100
490-97587-2	MW-10	Total/NA	Ground Water	6010B	318100
490-97587-3	MW-12	Total/NA	Ground Water	6010B	318100
490-97587-4	MW-1A	Total/NA	Ground Water	6010B	318100
490-97587-5	MW-11	Total/NA	Ground Water	6010B	318100
490-97587-6	DUP01	Total/NA	Ground Water	6010B	318100
490-97587-7	MW-13	Total/NA	Ground Water	6010B	318100
490-97587-8	MW-14	Total/NA	Ground Water	6010B	318100
LCS 490-318100/2-A	Lab Control Sample	Total/NA	Water	6010B	318100
LCSD 490-318100/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	318100
MB 490-318100/1-A	Method Blank	Total/NA	Water	6010B	318100

Analysis Batch: 318384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-9	MW-15	Total/NA	Ground Water	6010B	318174
490-97587-10	MW-16	Total/NA	Ground Water	6010B	318174
490-97587-12	MW-2A	Total/NA	Ground Water	6010B	318174
490-97587-14	MW-3A	Total/NA	Ground Water	6010B	318174
LCS 490-318174/2-A	Lab Control Sample	Total/NA	Water	6010B	318174
LCSD 490-318174/3-A	Lab Control Sample Dup	Total/NA	Water	6010B	318174
MB 490-318174/1-A	Method Blank	Total/NA	Water	6010B	318174

Analysis Batch: 318762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Dissolved	Ground Water	6010B	318249
490-97587-2	MW-10	Dissolved	Ground Water	6010B	318249
490-97587-3	MW-12	Dissolved	Ground Water	6010B	318249
490-97587-4	MW-1A	Dissolved	Ground Water	6010B	318249
490-97587-5	MW-11	Dissolved	Ground Water	6010B	318249
490-97587-6	DUP01	Dissolved	Ground Water	6010B	318249
490-97587-7	MW-13	Dissolved	Ground Water	6010B	318249
490-97587-8	MW-14	Dissolved	Ground Water	6010B	318249

Metals (Continued)

Analysis Batch: 318762 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-9	MW-15	Dissolved	Ground Water	6010B	318249
490-97587-10	MW-16	Dissolved	Ground Water	6010B	318249
490-97587-12	MW-2A	Dissolved	Ground Water	6010B	318249
490-97587-14	MW-3A	Dissolved	Ground Water	6010B	318249
LCS 490-318249/2-A	Lab Control Sample	Total Recoverable	Water	6010B	318249
MB 490-318249/1-A	Method Blank	Total Recoverable	Water	6010B	318249

General Chemistry

Analysis Batch: 319949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
490-97587-1	MW-5A	Total/NA	Ground Water	353.2	
490-97587-2	MW-10	Total/NA	Ground Water	353.2	
490-97587-3	MW-12	Total/NA	Ground Water	353.2	
490-97587-4	MW-1A	Total/NA	Ground Water	353.2	
490-97587-5	MW-11	Total/NA	Ground Water	353.2	
490-97587-6	DUP01	Total/NA	Ground Water	353.2	
490-97587-7	MW-13	Total/NA	Ground Water	353.2	
490-97587-8	MW-14	Total/NA	Ground Water	353.2	
490-97587-9	MW-15	Total/NA	Ground Water	353.2	
490-97587-10	MW-16	Total/NA	Ground Water	353.2	
490-97587-10 MS	MW-16	Total/NA	Ground Water	353.2	
490-97587-12	MW-2A	Total/NA	Ground Water	353.2	
490-97587-14	MW-3A	Total/NA	Ground Water	353.2	
LCS 490-319949/7	Lab Control Sample	Total/NA	Water	353.2	
LCSD 490-319949/8	Lab Control Sample Dup	Total/NA	Water	353.2	
MB 490-319949/6	Method Blank	Total/NA	Water	353.2	

Lab Chronicle

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-5A
Date Collected: 02/10/16 11:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-1
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	352174	02/24/16 20:05	KLB	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		323213	03/11/16 06:37	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 18:56	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 15:59	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-10
Date Collected: 02/10/16 13:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-2
Matrix: Ground 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	352086	02/24/16 04:00	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		323213	03/11/16 07:35	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:00	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:04	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-12
Date Collected: 02/10/16 14:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-3
Matrix: Ground 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	352086	02/24/16 04:27	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 09:21	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:05	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:08	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-1A
Date Collected: 02/10/16 16:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-4
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	352174	02/24/16 19:38	KLB	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 09:43	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:09	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:12	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-11
Date Collected: 02/10/16 17:45
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-5
Matrix: Ground 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	352086	02/24/16 04:55	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 10:05	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:13	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:17	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: DUP01
Date Collected: 02/10/16 12:00
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-6
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	352174	02/24/16 20:33	KLB	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 10:27	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:18	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:21	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-13
Date Collected: 02/11/16 09:15
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-7
Matrix: Ground 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	352086	02/24/16 05:23	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 10:50	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:22	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:25	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-14
Date Collected: 02/11/16 10:35
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-8
Matrix: Ground 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	352086	02/24/16 05:50	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 11:12	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:26	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318100	02/17/16 14:24	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318327	02/18/16 16:29	TSC	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-15
Date Collected: 02/11/16 11:25
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-9
Matrix: Ground 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	352086	02/24/16 06:18	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 11:34	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:40	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318174	02/18/16 09:34	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318384	02/19/16 09:50	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-16

Date Collected: 02/11/16 14:05
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-10
Matrix: Ground 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	352086	02/24/16 06:46	EMM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 11:56	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:44	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318174	02/18/16 09:34	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318384	02/19/16 09:55	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-2A

Date Collected: 02/11/16 16:50
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-12
Matrix: Ground Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	5 mL	5 mL	352426	02/25/16 14:00	CJM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 14:38	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 19:53	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318174	02/18/16 09:34	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318384	02/19/16 10:12	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Client Sample ID: MW-3A

Date Collected: 02/11/16 16:30
Date Received: 02/17/16 09:45

Lab Sample ID: 490-97587-14
Matrix: Ground 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	352426	02/25/16 13:06	CJM	TAL EDI
Total/NA	Analysis	9056A		1	10 mL		322270	03/08/16 16:06	JHS	TAL NSH
Dissolved	Filtration	Filtration			50 mL	50 mL	318083	02/17/16 13:05	KMS	TAL NSH
Dissolved	Prep	3005A			50 mL	50 mL	318249	02/18/16 14:59	RDF	TAL NSH
Dissolved	Analysis	6010B		1	50 mL	50 mL	318762	02/19/16 18:51	NJB	TAL NSH
Total/NA	Prep	3010A			50 mL	50 mL	318174	02/18/16 09:34	KMS	TAL NSH
Total/NA	Analysis	6010B		1	50 mL	50 mL	318384	02/19/16 10:16	NJB	TAL NSH
Total/NA	Analysis	353.2		1	50 mL	50 mL	319949	02/25/16 16:19	MJA	TAL NSH

Lab Chronicle

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

TestAmerica Job ID: 490-97587-1

Client Sample ID: MW-8

Lab Sample ID: 490-97587-16
Date Collected: 02/12/16 08:45
Matrix: Ground Water
Date Received: 02/17/16 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	352426	02/25/16 17:37	CJM	TAL EDI

Client Sample ID: Rinse Blank

Lab Sample ID: 490-97587-17
Date Collected: 02/12/16 10:10
Matrix: Water
Date Received: 02/17/16 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	352426	02/25/16 17:10	CJM	TAL EDI

Client Sample ID: Trip Blank

Lab Sample ID: 490-97587-18
Date Collected: 02/12/16 01:00
Matrix: Water
Date Received: 02/17/16 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	352426	02/25/16 16:42	CJM	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

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: 490-97587-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI
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 EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
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: 490-97587-1

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	03-31-17

Laboratory: TestAmerica Edison

All certifications held by this laboratory are listed. Not all certifications are applicable to this report.

Authority	Program	EPA Region	Certification ID	Expiration Date
Connecticut	State Program	1	PH-0200	09-30-16
DE Haz. Subst. Cleanup Act (HSCA)	State Program	3	N/A	12-31-15 *
New Jersey	NELAP	2	12028	06-30-16
New York	NELAP	2	11452	03-31-16
Pennsylvania	NELAP	3	68-00522	02-28-17
Rhode Island	State Program	1	LAO00132	12-30-16 *
USDA	Federal		NJCA-003-08	04-04-17

* Certification renewal pending - certification considered valid.

Huckaba, Jennifer

From: Goodell, Paul [Paul.Goodell@arcadis.com]
Sent: Friday, March 18, 2016 1:23 PM
To: Huckaba, Jennifer
Cc: Nelson, John; Goodell, Hillary
Subject: FW: TestAmerica EDD and report files from 490-97587-1 14489 - North East
Attachments: 490-97587-1 Arcadis_Exxon_2013.xls; J97587-1 UDS Level 2 Report Final Report.pdf

Good afternoon Jennifer,

I was reviewing our quarterly report and saw that we had sampled INJ-1, INJ-2, and INJ-3 for this site. These are not monitoring wells and were not meant to be compliance points for our sampling. Is it possible to remove these results for just these three locations from the analytical report?

Thanks.

Paul

From: Huckaba, Jennifer [mailto:jennifer.huckaba@testamericainc.com]
Sent: Wednesday, March 16, 2016 11:36 PM
To: Goodell, Hillary <Hillary.Goodell@arcadis.com>; Garrett, John <John.Garrett@arcadis.com>; Goodell, Paul <Paul.Goodell@arcadis.com>; Brajer, Paulina <Paulina.Brajer@arcadis.com>; Matteson, Sarah <Sarah.Matteson@arcadis.com>; XOM_ARCADIS_EDD <XOM_ARCADIS_EDD@arcadis.com>; Geyfman, Yelena <Yelena.Geyfman@arcadis.com>
Subject: TestAmerica EDD and report files from 490-97587-1 14489 - North East

Hello,

Attached please find the EDD and report files for job 490-97587-1; 14489 - North East

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback

JENNIFER HUCKABA
Project Manager II

TestAmerica Nashville
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 615.301.5042

Reference: [280831]
Attachments: 2

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TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-97587 Chain of Custody

Cooler Received/Opened On 2-17-16@ 0945

Time Samples Removed From Cooler 1025 Time Samples Placed In Storage 1220 (2 Hour Window)

1. Tracking # 8401 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18290455~~ 17960357 mm 2-11-16 pH Strip Lot ~~HC554612~~ HC559158 mm 2-11-16 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 0.2 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: 2 front/back

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) TTT

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) M

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) M

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) M

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

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 12/15/15

Loc: 490
97587

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

Cooler Received/Opened On 2-17-16@ 0945

Time Samples Removed From Cooler 1055 Time Samples Placed In Storage_____ (2 Hour Window)

1. Tracking # 6434 (last 4 digits, FedEx) Courier: FedEx

IR Gun ID ~~18290455~~ 17960357 mm 2-11-16 pH Strip Lot ~~HC554012~~ HC559158 mm 2-11-16 Chlorine Strip Lot 072815A

2. Temperature of rep. sample or temp blank when opened: 0.2 *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 1 back

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) TH

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 # NA

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

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) _____

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) _____

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

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
Page 1 of 1

Revised 12/15/15

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

Pg 1 of 2

Consultant Name: Arcadis U.S. Inc
Address: 801 Corporate Center Drive Suite 300
City/State/Zip: Raleigh, NC 27607
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919.415.2327 Fax No.:
Sampler Name: (Print) W.K. Carr / Selina Adams
Sampler Signature: W.K. Carr

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

Loc: 490
97587

	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: 8260 VOCs + Full Oxygenates	353.2 Nitrate / Nitrite (Short Hold-48hr)	9056A - Sulfate	6010B Total Iron	6010B Dissolved Iron		8260 VOCs (Trip Blank)					RUSH TAT (Pre-Schedule)*	TAT request (in Bus. Days)	Fax Results (yes or no)	Due Date of Report
1	MW-5A	02.10.16	1145	7	/					/		/	/	/	/							/	/	/	/	/								5 Bus		Standard
2	MW-10		1315	7	/					/		/	/	/	/							/	/	/	/	/										
3	MW-12		1435	7	/					/		/	/	/	/							/	/	/	/	/										
4	MW-1A		1605	7	/					/		/	/	/	/							/	/	/	/	/										
5	MW-11		1745	7	/					/		/	/	/	/							/	/	/	/	/										
6	DUP 01	↓	1200	7	/					/		/	/	/	/							/	/	/	/	/										
7	MW-13	02.11.16	0915	7	/					/		/	/	/	/							/	/	/	/	/										
8	MW-14		1025	7	/					/		/	/	/	/							/	/	/	/	/										
9	MW-15		1125	7	/					/		/	/	/	/							/	/	/	/	/										
10	MW-16		1405	7	/					/		/	/	/	/							/	/	/	/	/										

Comments/Special Instructions: Please lab filter Dissolved Iron

TA Nashville Project #: 49001445

Relinquished by:	Date	Time	Received by:	Date	Time
W.K. Carr	02.15.16	1600	FEDEX 663832588434	02.15.16	1600
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[illegible]	2/17/16	0945

0.2/0.2

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:

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

Pg 2 of

Consultant Name: Arcadis U.S. Inc
Address: 801 Corporate Center Drive Suite 300
City/State/Zip: Raleigh, NC 27607
ExxonMobil Project Mgr:
Consultant Project Mgr: Hillary Goodell
Consultant Telephone Number: 919.415.2327 Fax No.:
Sampler Name: (Print) W.K. Carr / Salina Adams
Sampler Signature: W.K. Carr

TA PROJECT #: 49001445
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PO #: B0085851.0010
PROJECT #: 14489
Facility ID #:
Site Address 285 Old Bay View Rd
City, State, Zip North East, MD
Regulatory District (CA)

Loc: 490
97587

	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):	8260 VOCs + Full Oxygenates	353.2 Nitrate / Nitrite (Short Hold-48hr)	9056A - Sulfate	6010B Total Iron	6010B Dissolved Iron		8260 VOCs (Trip Blank)					RUSH TAT (Pre-Schedule)	TAT request (In Bus. Days)	Fax Results (yes or no)	Due Date of Report
11	INJ-1	02.11.16	1530	7	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
12	MW-2A	↓	1650	7	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
13	INJ-3	↓	1400	7	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
14	MW-3A	↓	1630	7	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
15	INJ-2	02.12.16	0910	7	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
16	MW-8	↓	0845	3	✓					✓												✓													
	INJ-3 MS/MSD	02.11.16	1400	14	✓					✓		✓		✓	✓	✓						✓	✓	✓	✓	✓									
17	Rinse Blank	2.12.16	1010	3	✓					✓												✓													
18	Trip Blank (lab supplied)	—	-	2						✓																		✓							

Comments/Special Instructions: Please Lab filter Dissolved Iron

TA Nashville Project #: 49001445

Relinquished by:	Date	Time	Received by:	Date	Time
W.K. Carr	02.15.16	1600	FET# 663832588434	02.15.16	1600
Relinquished by:	Date	Time	Received by TestAmerica:	Date	Time
			[illegible]	2/17/16	0945

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:

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3/23/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-41768.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 1 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 490-97587-1
Address: 777 New Durham Road,	Due Date Requested: 2/29/2016			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: 14489 - North East	Project #: 49001445			
Site: Arcadis - Exxon MD sites	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL, B - NaOH, C - Zn Acetate, D - Nitric Acid, E - NaHSO4, F - MeOH, G - Amchlor, H - Ascorbic Acid, I - Ice, J - DI Water, K - EDTA, L - EDA, M - Hexane, N - None, O - AsNaO2, P - Na2O4S, Q - Na2SO3, R - Na2S2SO3, S - H2SO4, T - TSP Dodecahydrate, U - Acetone, V - MCAA, W - ph 4-5, Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) Standard 8260 List + Oxygenates (6	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
MW-5A (490-97587-1)	2/10/16	11:45 Eastern		Water			X	2	
MW-10 (490-97587-2)	2/10/16	13:15 Eastern		Water			X	3	
MW-12 (490-97587-3)	2/10/16	14:35 Eastern		Water			X	3	
MW-1A (490-97587-4)	2/10/16	16:05 Eastern		Water			X	3	
MW-11 (490-97587-5)	2/10/16	17:45 Eastern		Water			X	2	
DUP01 (490-97587-6)	2/10/16	12:00 Eastern		Water			X	3	
MW-13 (490-97587-7)	2/11/16	09:15 Eastern		Water			X	3	
MW-14 (490-97587-8)	2/11/16	10:35 Eastern		Water			X	3	
MW-15 (490-97587-9)	2/11/16	11:25 Eastern		Water			X	2	
MW-16 (490-97587-10)	2/11/16	14:05 Eastern		Water			X	3	
INJ-1 (490-97587-11)	2/11/16	15:30 Eastern		Water			X	3	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:

Time:

Method of Shipment:

Relinquished by:

Received by: [signature] Date/Time: 2/25/16 0930 Company: TA

Relinquished by:

Received by: Date/Time: Company

Relinquished by: Date/Time: Company

Received by: Date/Time: Company

490-97587 Chain of Custody

Custody Seals Intact: Δ Yes Δ No

Custody Seal No.: 216926 / 216924

Cooler Temperature(s) °C and Other Remarks: 1.6 / 2.6 1.6 / 2.6 - 2.6

TestAmerica Nashville
2960 Foster Creighton Drive
Nashville, TN 37204
Phone (615) 726-0177 Fax (615) 726-3404

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3/23/2016

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Huckaba, Jennifer	Carrier Tracking No(s):	COC No: 490-41768.2
Client Contact: Shipping/Receiving	Phone:	E-Mail: jennifer.huckaba@testamericainc.com		Page: Page 2 of 2
Company: TestAmerica Laboratories, Inc.				Job #: 490-97587-1
Address: 777 New Durham Road, ,	Due Date Requested: 2/29/2016			
City: Edison	TAT Requested (days):			
State, Zip: NJ, 08817				
Phone: 732-549-3900(Tel) 732-549-3679(Fax)	PO #:			
Email:	WO #:			
Project Name: 14489 - North East	Project #: 49001445			
Site: Arcadis - Exxon MD sites	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL
B - NaOH
C - Zn Acetate
D - Nitric Acid
E - NaHSO4
F - MeOH
G - Amchlor
H - Ascorbic Acid
I - Ice
J - DI Water
K - EDTA
L - EDA
M - Hexane
N - None
O - AsNaO2
P - Na2O4S
Q - Na2SO3
R - Na2S2SO3
S - H2SO4
T - TSP Dodecahydrate
U - Acetone
V - MCAA
W - ph 4-5
Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8260B/5030B (MOD) Standard 8260 List + Oxygenates (6												Total Number of containers	Special Instructions/Note:
			Preservation Code:																	
MW-2A (490-97587-12)	2/11/16	16:50 Eastern		Water			X												3	
INJ-3 (490-97587-13)	2/11/16	14:00 Eastern		Water			X												2	
INJ-3 (490-97587-13MS)	2/11/16	14:00 Eastern	MS	Water			X												3	
INJ-3 (490-97587-13MSD)	2/11/16	14:00 Eastern	MSD	Water			X												3	
MW-3A (490-97587-14)	2/11/16	16:30 Eastern		Water			X												3	
INJ-2 (490-97587-15)	2/12/16	09:10 Eastern		Water			X												3	
MW-8 (490-97587-16)	2/12/16	08:45 Eastern		Water			X												3	
Rinse Blank (490-97587-17)	2/12/16	10:10 Eastern		Water			X												3	
Trip Blank (490-97587-18)	2/12/16	01:00 Eastern		Water			X												2	

Possible Hazard Identification
Unconfirmed

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*

Deliverable Requested: I, II, III, IV, Other (specify)

Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time: 3/23/16 09:30	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks:

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-97587-1

Login Number: 97587
List Number: 1
Creator: Buckingham, Paul

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 (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	True	

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 490-97587-1

Login Number: 97587
List Number: 2
Creator: Villadarez, Gerson Timothy S

List Source: TestAmerica Edison
List Creation: 02/23/16 01:02 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	216924, 216926
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.0°C, 2.6°C IR#6
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	N/A	
Samples do not require splitting or compositing.	N/A	
Residual Chlorine Checked.	N/A	

APPENDIX C

Monitored Natural Attenuation Evaluation

Attachment C
Table C-1
Summary of Statistical Analysis of Groundwater Analytical Data
Former ExxonMobil Facility #14489
285 Old Bayview Road, North East, Maryland

Constituent	Well	MEAT GWS (µg/L)[1]	Data Range						Linear Regression Analysis					
			Minimum Concentration (µg/L)	Maximum Concentration (µg/L)	Concentration Measured Most Recently (µg/L)	% of Data Above Laboratory Reporting Limit	Start Date	End Date	Coefficient of Determination, R-squared[2]	p-value of Correlation (Significance of Slope)	Attenuation Half-life (days)	Trend Direction	Significance of Trend[3]	Projected Year to Screening Level
Benzene	MW-1A	5	**14**	**560**	**21**	100	6/1/2005	2/10/2016	6.39E-01	1.05E-09	1,268	Decreasing	Significant	2025
	MW-2A	5	**53**	**1,740**	**53**	100	6/1/2005	2/10/2016	7.33E-01	3.82E-12	1,081	Decreasing	Significant	2028
	MW-5A	5	**5.47**	**136**	**5.47**	100	6/1/2005	2/10/2016	6.39E-01	1.05E-09	1,268	Decreasing	Significant	2025
	MW-11	5	*1*	**504**	*1*	92	6/1/2005	2/10/2016	5.58E-01	4.70E-08	540	Decreasing	Significant	In Compliance since 2014
	MW-14	5	**0.72**	**580**	**1.00**	68	6/1/2005	2/10/2016	2.03E-01	5.11E-03	836	Decreasing	Significant	In Compliance since 2012
Toluene	MW-1A	1,000	459	**5,770**	633	100	6/1/2005	2/10/2016	2.32E-01	1.89E-03	2,935	Decreasing	Significant	2017
Ethylbenzene	MW-1A	700	374	**2,560**	397	100	6/1/2005	2/10/2016	5.82E-01	1.62E-08	2,203	Decreasing	Significant	In Compliance since 2015
	MW-2A	700	569	**3,310**	**888**	100	6/1/2005	2/10/2016	4.24E-01	7.15E-06	3,010	Decreasing	Significant	2020
	MW-5A	700	270	**1,670**	270	100	6/1/2005	2/10/2016	2.21E-01	2.93E-03	5,091	Decreasing	Significant	In Compliance since 2014
MTBE	MW-2A	20	**28**	**829**	**28**	100	6/1/2005	2/10/2016	7.28E-01	5.17E-12	1,001	Decreasing	Significant	2020
	MW-11	20	*1*	**748**	*1*	95	6/1/2005	2/10/2016	6.13E-01	3.77E-09	571	Decreasing	Significant	In Compliance since 2013
	MW-14	20	**1**	**142**	**1**	81	6/1/2005	2/10/2016	1.10E-01	4.54E-02	1,390	Decreasing	Significant	In Compliance since 2007
Naphthalene	MW-1A	0.7	**62**	**497**	**110**	100	6/29/2008	2/10/2016	4.70E-01	1.51E-05	2,064	Decreasing	Significant	2059
	MW-2A	0.7	**128**	**652**	**176**	100	6/29/2008	2/10/2016	4.79E-01	1.15E-05	2,475	Decreasing	Significant	2069
	MW-5A	0.7	**87**	**362**	**111**	100	6/29/2008	2/10/2016	1.53E-01	2.97E-02	4,763	Decreasing	Significant	2120
	MW-11	0.7	***1***	**213**	***1***	91	6/29/2008	2/10/2016	7.96E-02	1.18E-01	1,560	Decreasing	NS	NA

Notes, Abbreviations and Assumptions:
µg/L = micrograms per liter
NS = not significant
NA = not applicable due to increasing trend or non-significant trend
[1] MEAT = Maryland Environmental Assessment Technology Groundwater Standarc
[2] Linear regression analysis with R^2 values <0.1 and wide variation in concentrations were defined as having no apparent trend (No Trend
[3] Statistically significant trend defined as having p-value≤0.05 (keep one based on size of dataset).
Data in italics ND taken at reporting limit/reported value
Data in **bold** Concentration above screening level

NEW QUICK DOMENICO

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Former ExxonMobil Facility #14889						
Date:	4/19/2016	Prepared by:	MS				
		Contaminant:	Benzene				
SOURCE CONC (MG/L)	**Ax (ft)**	**Ay (ft)**	**Az (ft) >=.001**	**LAMBDA day-1**	**SOURCE WIDTH (ft)**	**SOURCE THICKNESS (ft)**	**Time (days) (days)**
0.053	1.00E+01	1.00E+00	1.00E-03	0.0009	35	10	1000
Hydraulic Cond (ft/day)	**Hydraulic Gradient (ft/ft)**	**Porosity (dec. frac.)**	**Soil Bulk Density (g/cm^{3})**	**KOC**	**Frac. Org. Carb.**	**Retard-ation (R)**	**V (=K*i/n*R) (ft/day)**
3.28E-01	0.109	0.2	1.8	58	2.00E-03	2.044	0.087541292

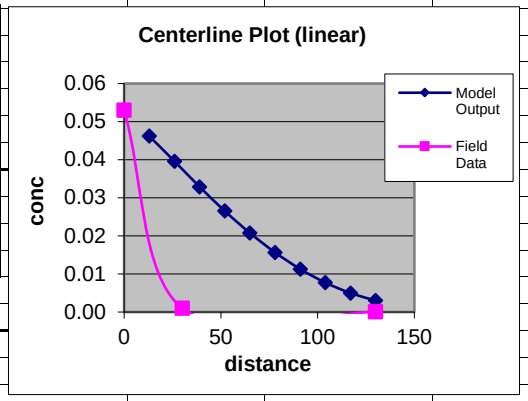
NEW QUICK_DOMENICO.XLS

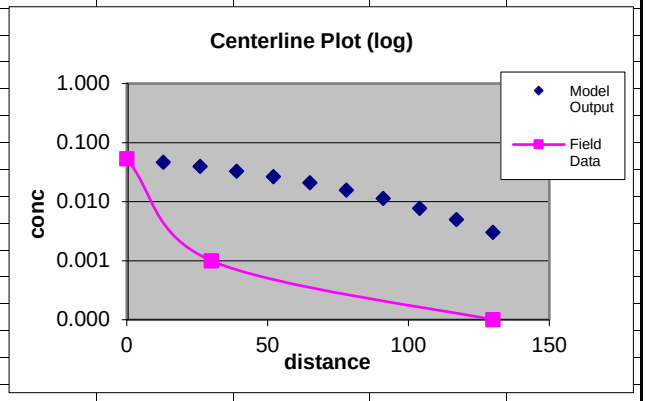
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES"
P.A. Domenico (1987)
Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
120	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	120	0	0
at	1000	days =	
			0.004
			mg/l





	AREAL MODEL	CALCULATION DOMAIN
	Length (ft)	130
	Width (ft)	5

	13	26	39	52	65	78	91	104	117	130
5	0.046	0.039	0.032	0.025	0.020	0.015	0.011	0.007	0.005	0.003
2.5	0.046	0.039	0.033	0.026	0.021	0.015	0.011	0.008	0.005	0.003
0	0.046	0.040	0.033	0.027	0.021	0.016	0.011	0.008	0.005	0.003
-2.5	0.046	0.039	0.033	0.026	0.021	0.015	0.011	0.008	0.005	0.003
-5	0.046	0.039	0.032	0.025	0.020	0.015	0.011	0.007	0.005	0.003
Field Data:	**Centerline C Concentration**			0.053	0.001	0.0001				
	Distance from Source			0	30	130				

NEW QUICK DOMENICO

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Former ExxonMobil Facility #14889						
Date:	4/19/2016	Prepared by:	MS				
		Contaminant:	Ethyl benzene				
SOURCE CONC (MG/L)	**Ax (ft)**	**Ay (ft)**	**Az (ft) >=.001**	**LAMBDA day-1**	**SOURCE WIDTH (ft)**	**SOURCE THICKNESS (ft)**	**Time (days) (days)**
0.888	1.00E+01	1.00E+00	1.00E-03	0.003041	35	10	1000
Hydraulic Cond (ft/day)	**Hydraulic Gradient (ft/ft)**	**Porosity (dec. frac.)**	**Soil Bulk Density (g/cm$^{3)}$**	**KOC**	**Frac. Org. Carb.**	**Retard-ation (R)**	**V (=K*i/n*R) (ft/day)**
3.28E-01	0.109	0.2	1.8	220	2.00E-03	4.96	0.036075484

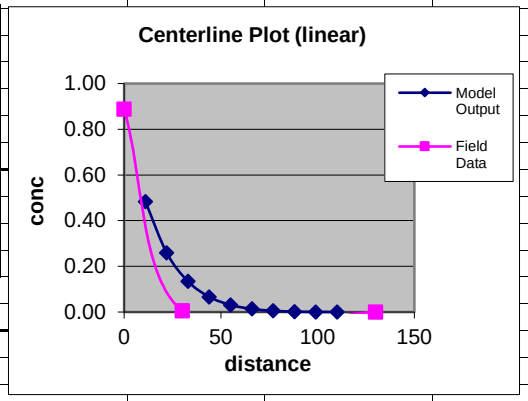
NEW QUICK_DOMENICO.XLS

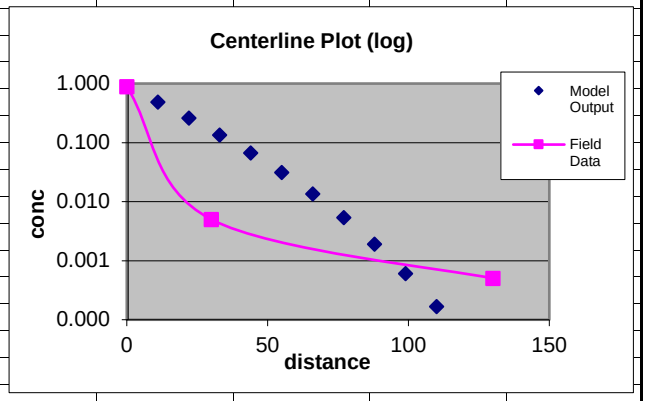
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES"
P.A. Domenico (1987)
Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
4.5	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	4.5	0	0
at	1000	days =	
			0.692
			mg/l





	AREAL MODEL	CALCULATION DOMAIN
	Length (ft)	110
	Width (ft)	5

	11	22	33	44	55	66	77	88	99	110
5	0.481	0.253	0.129	0.064	0.030	0.013	0.005	0.002	0.001	0.000
2.5	0.483	0.258	0.133	0.066	0.031	0.013	0.005	0.002	0.001	0.000
0	0.483	0.259	0.134	0.066	0.031	0.013	0.005	0.002	0.001	0.000
-2.5	0.483	0.258	0.133	0.066	0.031	0.013	0.005	0.002	0.001	0.000
-5	0.481	0.253	0.129	0.064	0.030	0.013	0.005	0.002	0.001	0.000
Field Data:	**Centerline C Concentration**			0.888	0.005	0.0005				
	Distance from Source			0	30	130				

NEW QUICK DOMENICO

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Former ExxonMobil Facility #14889						
Date:	4/19/2016	Prepared by:	MS				
		Contaminant:	MTBE				
SOURCE CONC (MG/L)	**Ax (ft)**	**Ay (ft)**	**Az (ft) >=.001**	**LAMBDA day-1**	**SOURCE WIDTH (ft)**	**SOURCE THICKNESS (ft)**	**Time (days) (days)**
0.028	1.00E+01	1.00E+00	1.00E-03	0.00189	35	10	1000
Hydraulic Cond (ft/day)	**Hydraulic Gradient (ft/ft)**	**Porosity (dec. frac.)**	**Soil Bulk Density (g/cm$^{3)}$**	**KOC**	**Frac. Org. Carb.**	**Retard-ation (R)**	**V (=K*i/n*R) (ft/day)**
3.28E-01	0.109	0.2	1.8	12	2.00E-03	1.216	0.14715

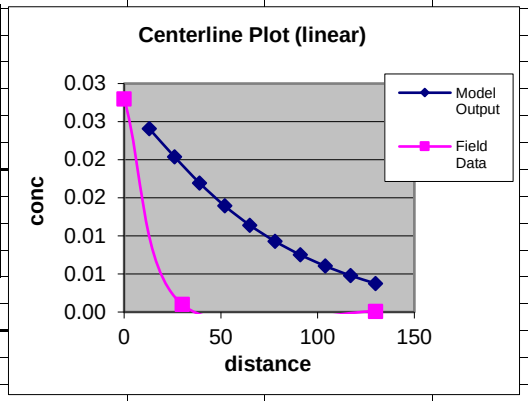
NEW QUICK_DOMENICO.XLS

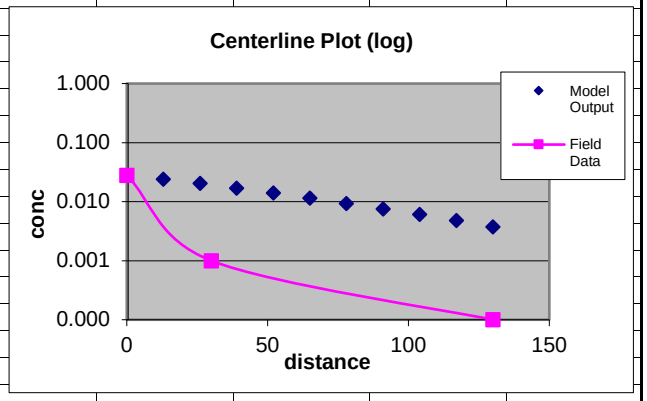
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES" P.A. Domenico (1987) Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
30	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	30	0	0
at	1000	days =	
			0.019
			mg/l





	AREAL MODEL	CALCULATION DOMAIN
	Length (ft)	130
	Width (ft)	5

	13	26	39	52	65	78	91	104	117	130
5	0.024	0.020	0.016	0.013	0.011	0.009	0.007	0.006	0.005	0.004
2.5	0.024	0.020	0.017	0.014	0.011	0.009	0.007	0.006	0.005	0.004
0	0.024	0.020	0.017	0.014	0.011	0.009	0.008	0.006	0.005	0.004
-2.5	0.024	0.020	0.017	0.014	0.011	0.009	0.007	0.006	0.005	0.004
-5	0.024	0.020	0.016	0.013	0.011	0.009	0.007	0.006	0.005	0.004
Field Data:	**Centerline C Concentration**			0.028	0.001	0.0001				
	Distance from Source			0	30	130				

NEW QUICK DOMENICO

ADVECTIVE TRANSPORT WITH THREE DIMENSIONAL DISPERSION,1ST ORDER DECAY and RETARDATION - WITH CALIBRATION TOOL

Project:	Former ExxonMobil Facility #14889						
Date:	4/19/2016	Prepared by:	MS				
		Contaminant:	Naphthalene				
SOURCE CONC (MG/L)	**Ax (ft)**	**Ay (ft)**	**Az (ft) >=.001**	**LAMBDA day-1**	**SOURCE WIDTH (ft)**	**SOURCE THICKNESS (ft)**	**Time (days) (days)**
0.176	1.00E+01	1.00E+00	1.00E-03	0.002685	35	10	1000
Hydraulic Cond (ft/day)	**Hydraulic Gradient (ft/ft)**	**Porosity (dec. frac.)**	**Soil Bulk Density (g/cm$^{3)}$**	**KOC**	**Frac. Org. Carb.**	**Retard-ation (R)**	**V (=K*i/n*R) (ft/day)**
3.28E-01	0.109	0.2	1.8	950	2.00E-03	18.1	0.009885878

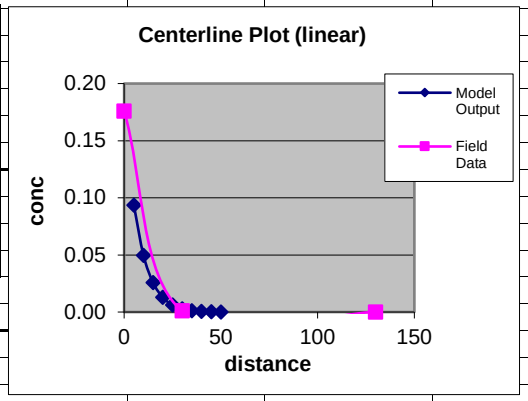
NEW QUICK_DOMENICO.XLS

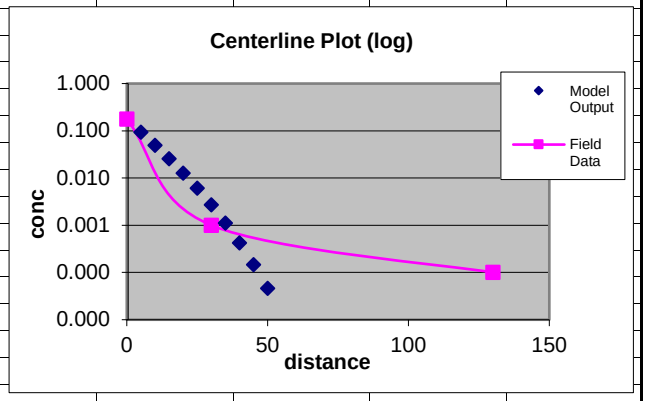
SPREADSHEET APPLICATION OF "AN ANALYTICAL MODEL FOR MULTIDIMENSIONAL TRANSPORT OF A DECAYING CONTAMINANT SPECIES"
P.A. Domenico (1987)
Modified to Include Retardation

Point Concentration

x(ft)	y(ft)	z(ft)
40	0	0

	x(ft)	y(ft)	z(ft)
Conc. At	40	0	0
at	1000	days =	
			0.000
			mg/l





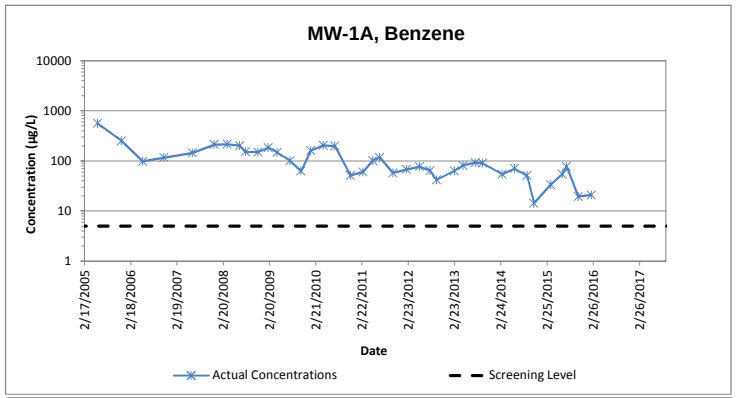
	AREAL MODEL	CALCULATION DOMAIN
	Length (ft)	50
	Width (ft)	5

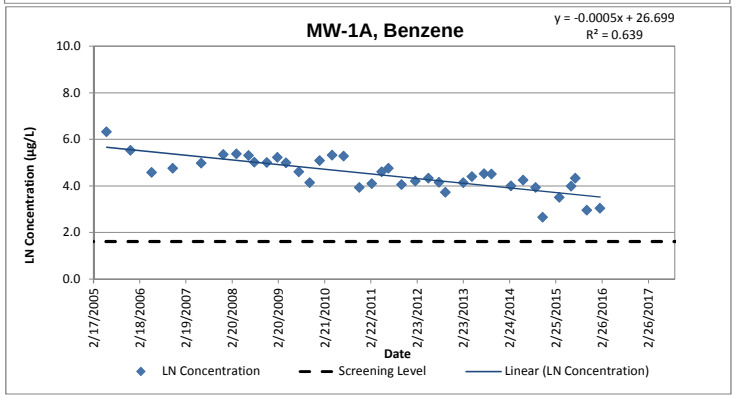
	5	10	15	20	25	30	35	40	45	50
5	0.094	0.049	0.025	0.013	0.006	0.003	0.001	0.000	0.000	0.000
2.5	0.094	0.050	0.026	0.013	0.006	0.003	0.001	0.000	0.000	0.000
0	0.094	0.050	0.026	0.013	0.006	0.003	0.001	0.000	0.000	0.000
-2.5	0.094	0.050	0.026	0.013	0.006	0.003	0.001	0.000	0.000	0.000
-5	0.094	0.049	0.025	0.013	0.006	0.003	0.001	0.000	0.000	0.000

Field Data:	**Centerline C**	**Concentration**		0.176	0.001	0.0001				
	Distance from Source			0	30	130				

Sample Information
Sample Location **MW-1A**
Constituent Benzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**560**	6.33
12/7/2005	**252**	5.53
5/24/2006	**97.7**	4.58
11/7/2006	**116**	4.75
6/21/2007	**145**	4.98
12/11/2007	**212**	5.36
3/24/2008	**216**	5.38
6/29/2008	**201**	5.30
8/14/2008	**151**	5.02
11/20/2008	**150**	5.01
2/11/2009	**185**	5.22
4/21/2009	**148**	5.00
7/31/2009	**101**	4.62
10/27/2009	**62.8**	4.14
1/12/2010	**162**	5.09
4/21/2010	**204**	5.32
7/22/2010	**197**	5.28
11/23/2010	**51.2**	3.94
3/2/2011	**60.2**	4.10
5/19/2011	**101**	4.62
7/12/2011	**117**	4.76
10/24/2011	**57.6**	4.05
2/8/2012	**67.5**	4.21
5/22/2012	**76.7**	4.34
8/14/2012	**64**	4.16
10/4/2012	**41.9**	3.74
2/22/2013	**63.2**	4.15
5/1/2013	**81.3**	4.40
8/6/2013	**92.3**	4.53
10/3/2013	**90.6**	4.51
3/6/2014	**54.6**	4.00
6/12/2014	**70.6**	4.26
9/19/2014	**51**	3.93
11/13/2014	**14.3**	2.66
3/25/2015	**33.4**	3.51
6/25/2015	**54.4**	4.00
7/29/2015	**76.7**	4.34
10/29/2015	**19.4**	2.97
2/10/2016	**20.9**	3.04





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

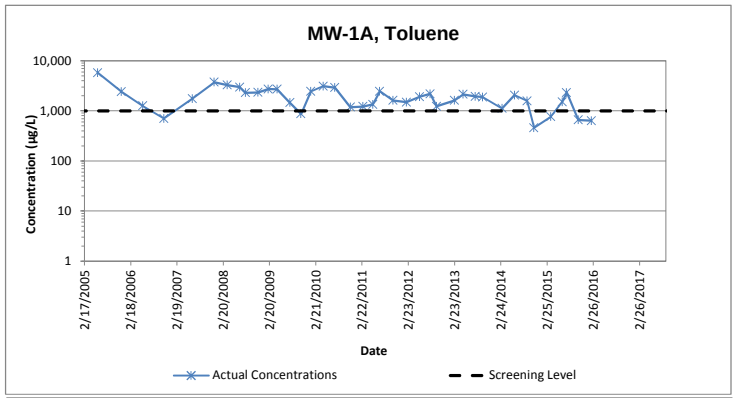
Results		
Coefficient of Determination (R^2) =	0.6390	
p-Value =	1.05E-09	
Attenuation Rate in Groundwater (K) =	0.0005	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0004	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.27E+03	days

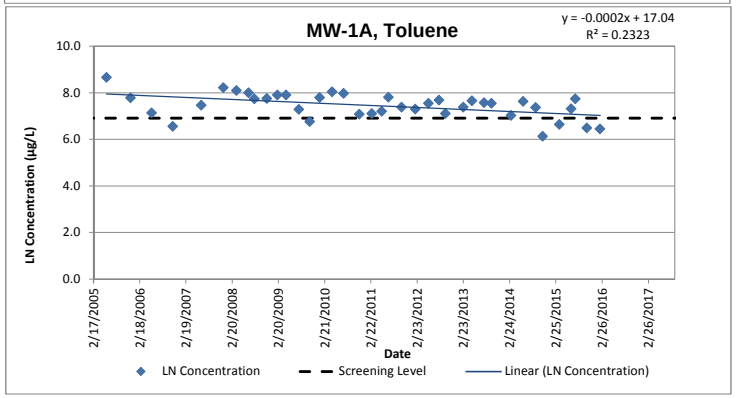
Date Screening Level Reached	
Screening Level	5.0
LN Screening Level	1.6
Intercept	26.699
Slope	-0.0005
Date to Screening Level	2025

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-1A**
Constituent Toluene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**5,770**	8.66
12/7/2005	**2,410**	7.79
5/24/2006	**1,260**	7.14
11/7/2006	703	6.56
6/21/2007	**1,750**	7.47
12/11/2007	**3,730**	8.22
3/24/2008	**3,280**	8.10
6/29/2008	**2,970**	8.00
8/14/2008	**2,300**	7.74
11/20/2008	**2,330**	7.75
2/11/2009	**2,720**	7.91
4/21/2009	**2,700**	7.90
7/31/2009	**1,460**	7.29
10/27/2009	873	6.77
1/12/2010	**2,430**	7.80
4/21/2010	**3,100**	8.04
7/22/2010	**2,900**	7.97
11/23/2010	**1,190**	7.08
3/2/2011	**1,220**	7.11
5/19/2011	**1,340**	7.20
7/12/2011	**2,450**	7.80
10/24/2011	**1,610**	7.38
2/8/2012	**1,490**	7.31
5/22/2012	**1,910**	7.55
8/14/2012	**2,180**	7.69
10/4/2012	**1,230**	7.11
2/22/2013	**1,620**	7.39
5/1/2013	**2,130**	7.66
8/6/2013	**1940**	7.57
10/3/2013	**1,890**	7.54
3/6/2014	**1,120**	7.02
6/12/2014	**2,060**	7.63
9/19/2014	**1,580**	7.37
11/13/2014	459	6.13
3/25/2015	762	6.64
6/25/2015	**1,510**	7.32
7/29/2015	**2,310**	7.75
10/29/2015	659	6.49
2/10/2016	633	6.45





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

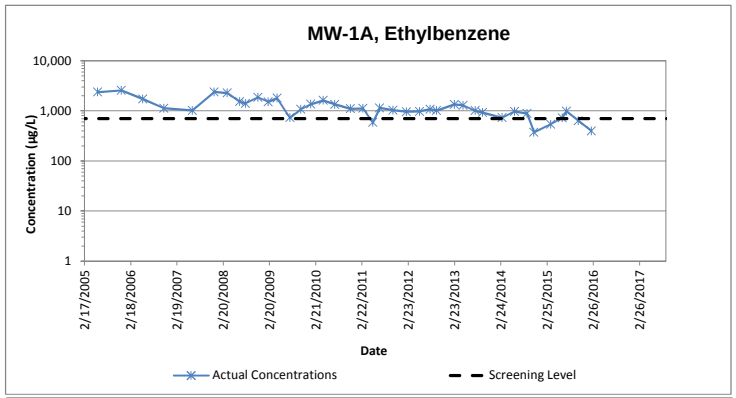
Results		
Coefficient of Determination (R^2) =	0.2323	
p-Value =	1.89E-03	
Attenuation Rate in Groundwater (K) =	0.0002	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0001	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	2.94E+03	days

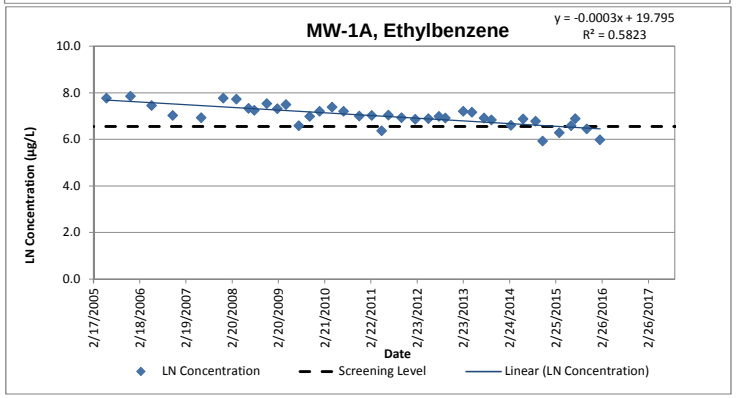
Date Screening Level Reached	
Screening Level	1,000.0
LN Screening Level	6.9
Intercept	17.040
Slope	-0.0002
Date to Screening Level	2017

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-1A**
Constituent Ethylbenzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**2,360**	7.77
12/7/2005	**2,560**	7.85
5/24/2006	**1,720**	7.45
11/7/2006	**1,130**	7.03
6/21/2007	**1,020**	6.93
12/11/2007	**2,380**	7.77
3/24/2008	**2,270**	7.73
6/29/2008	**1,520**	7.33
8/14/2008	**1,410**	7.25
11/20/2008	**1,860**	7.53
2/11/2009	**1,510**	7.32
4/21/2009	**1,790**	7.49
7/31/2009	**730**	6.59
10/27/2009	**1,080**	6.98
1/12/2010	**1,350**	7.21
4/21/2010	**1,610**	7.38
7/22/2010	**1,340**	7.20
11/23/2010	**1,100**	7.00
3/2/2011	**1,120**	7.02
5/19/2011	584	6.37
7/12/2011	**1,140**	7.04
10/24/2011	**1,030**	6.94
2/8/2012	**956**	6.86
5/22/2012	**976**	6.88
8/14/2012	**1,080**	6.98
10/4/2012	**1,010**	6.92
2/22/2013	**1,340**	7.20
5/1/2013	**1,290**	7.16
8/6/2013	**1010**	6.92
10/3/2013	**925**	6.83
3/6/2014	**731**	6.59
6/12/2014	**974**	6.88
9/19/2014	**882**	6.78
11/13/2014	374	5.92
3/25/2015	539	6.29
6/25/2015	**724**	6.58
7/29/2015	**980**	6.89
10/29/2015	636	6.46
2/10/2016	397	5.98





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

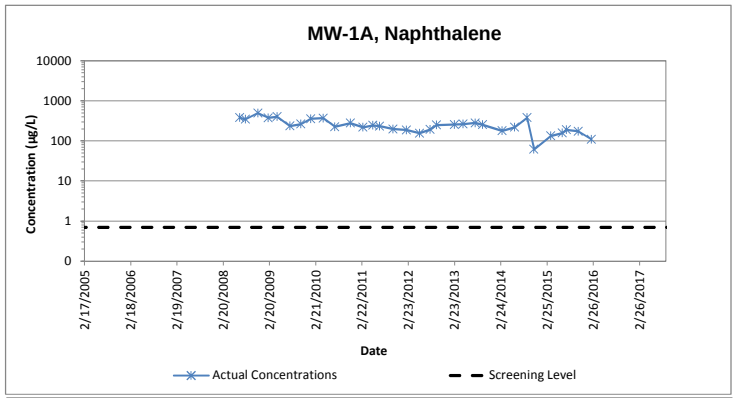
Results		
Coefficient of Determination (R^2) =	0.5823	
p-Value =	1.62E-08	
Attenuation Rate in Groundwater (K) =	0.0003	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0002	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	2.20E+03	days

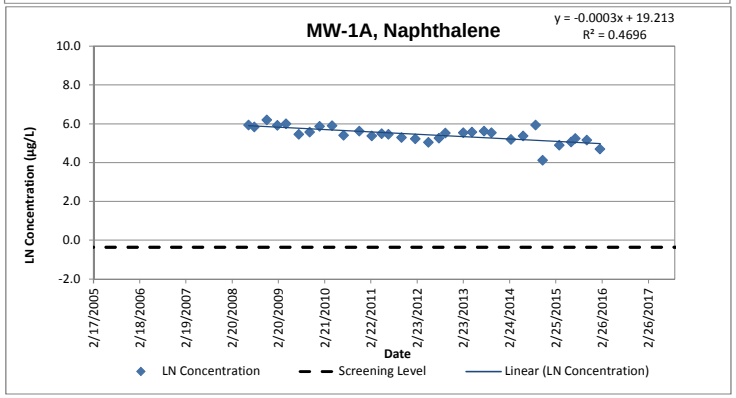
Date Screening Level Reached	
Screening Level	700.0
LN Screening Level	6.6
Intercept	19.795
Slope	-0.0003
Date to Screening Level	2015

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-1A**
Constituent Naphthalene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/29/2008	**378**	5.93
8/14/2008	**345**	5.84
11/20/2008	**497**	6.21
2/11/2009	**375**	5.93
4/21/2009	**402**	6.00
7/31/2009	**235**	5.46
10/27/2009	**263**	5.57
1/12/2010	**355**	5.87
4/21/2010	**369**	5.91
7/22/2010	**225**	5.42
11/23/2010	**277**	5.62
3/2/2011	**218**	5.38
5/19/2011	**244**	5.50
7/12/2011	**234**	5.46
10/24/2011	**198**	5.29
2/8/2012	**187**	5.23
5/22/2012	**155**	5.04
8/14/2012	**192**	5.26
10/4/2012	**249**	5.52
2/22/2013	**256**	5.55
5/1/2013	**262**	5.57
8/6/2013	**279**	5.63
10/3/2013	**254**	5.54
3/6/2014	**179**	5.19
6/12/2014	**218**	5.38
9/19/2014	**378**	5.93
11/13/2014	**61.6**	4.12
3/25/2015	**133**	4.89
6/25/2015	**157**	5.06
7/29/2015	**189**	5.24
10/29/2015	**174**	5.16
2/10/2016	**110**	4.70





Data quality	
Total # of data points used in regression	32
# of nondetects	0
% of data as detects	100

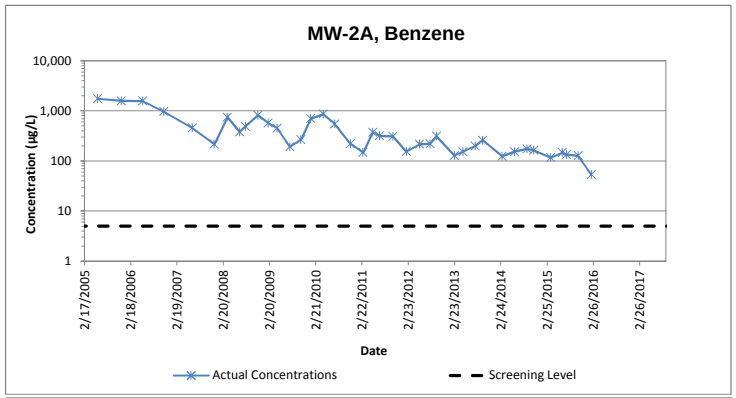
Results		
Coefficient of Determination (R^2) =	0.4696	
p-Value =	1.51E-05	
Attenuation Rate in Groundwater (K) =	0.0003	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0002	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	2.06E+03	days

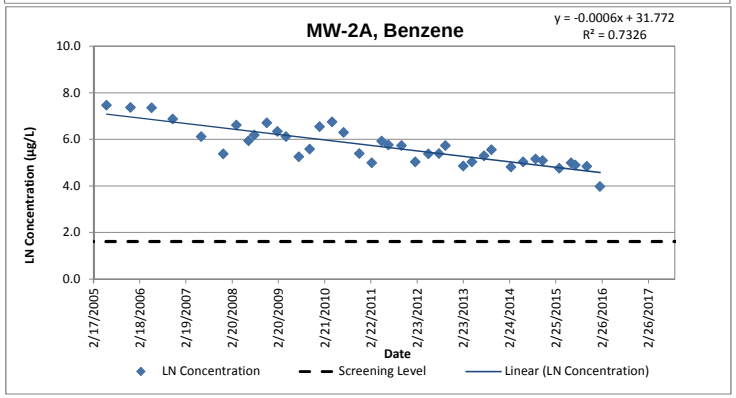
Date Screening Level Reached	
Screening Level	0.7
LN Screening Level	-0.4
Intercept	19.213
Slope	-0.0003
Date to Screening Level	2059

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-2A**
Constituent Benzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**1,740**	7.46
12/7/2005	**1,580**	7.37
5/24/2006	**1,570**	7.36
11/7/2006	**964**	6.87
6/21/2007	**456**	6.12
12/11/2007	**216**	5.38
3/24/2008	**747**	6.62
6/29/2008	**379**	5.94
8/14/2008	**489**	6.19
11/20/2008	**817**	6.71
2/11/2009	**567**	6.34
4/21/2009	**452**	6.11
7/31/2009	**191**	5.25
10/27/2009	**266**	5.58
1/12/2010	**699**	6.55
4/21/2010	**858**	6.75
7/22/2010	**544**	6.30
11/23/2010	**220**	5.39
3/2/2011	**147**	4.99
5/19/2011	**373**	5.92
7/12/2011	**316**	5.76
10/24/2011	**309**	5.73
2/8/2012	**154**	5.04
5/22/2012	**216**	5.38
8/14/2012	**221**	5.40
10/4/2012	**311**	5.74
2/22/2013	**128**	4.85
5/1/2013	**153**	5.03
8/6/2013	**199**	5.29
10/3/2013	**259**	5.56
3/6/2014	**124**	4.82
6/12/2014	**153**	5.03
9/19/2014	**174**	5.16
11/13/2014	**163**	5.09
3/25/2015	**117**	4.76
6/25/2015	**147**	4.99
7/29/2015	**134**	4.90
10/29/2015	**127**	4.84
2/10/2016	**53.1**	3.97





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

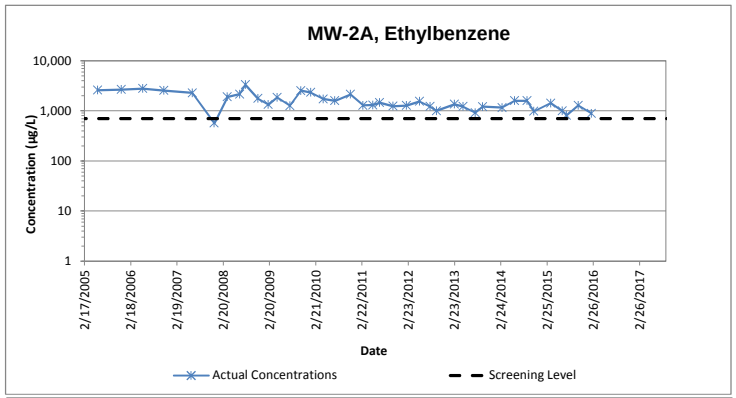
Results		
Coefficient of Determination (R^2) =	0.7326	
p-Value =	3.82E-12	
Attenuation Rate in Groundwater (K) =	0.0006	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0005	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.08E+03	days

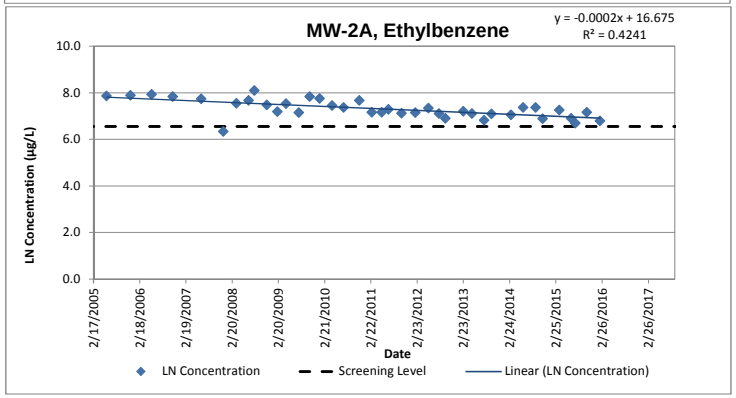
Date Screening Level Reached	
Screening Level	5.0
LN Screening Level	1.6
Intercept	31.772
Slope	-0.0006
Date to Screening Level	2028

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-2A**
Constituent Ethylbenzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**2,590**	7.86
12/7/2005	**2,660**	7.89
5/24/2006	**2,790**	7.93
11/7/2006	**2,550**	7.84
6/21/2007	**2,290**	7.74
12/11/2007	569	6.34
3/24/2008	**1,900**	7.55
6/29/2008	**2,160**	7.68
8/14/2008	**3,310**	8.10
11/20/2008	**1,770**	7.48
2/11/2009	**1,330**	7.19
4/21/2009	**1,860**	7.53
7/31/2009	**1,270**	7.15
10/27/2009	**2,530**	7.84
1/12/2010	**2,340**	7.76
4/21/2010	**1,720**	7.45
7/22/2010	**1,590**	7.37
11/23/2010	**2,140**	7.67
3/2/2011	**1,290**	7.16
5/19/2011	**1,300**	7.17
7/12/2011	**1,460**	7.29
10/24/2011	**1,240**	7.12
2/8/2012	**1,280**	7.15
5/22/2012	**1,550**	7.35
8/14/2012	**1,220**	7.11
10/4/2012	**1,000**	6.91
2/22/2013	**1,350**	7.21
5/1/2013	**1,220**	7.11
8/6/2013	**918**	6.82
10/3/2013	**1,210**	7.10
3/6/2014	**1,160**	7.06
6/12/2014	**1,590**	7.37
9/19/2014	**1,590**	7.37
11/13/2014	**977**	6.88
3/25/2015	**1,420**	7.26
6/25/2015	**991**	6.90
7/29/2015	**813**	6.70
10/29/2015	**1,290**	7.16
2/10/2016	**888**	6.79





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

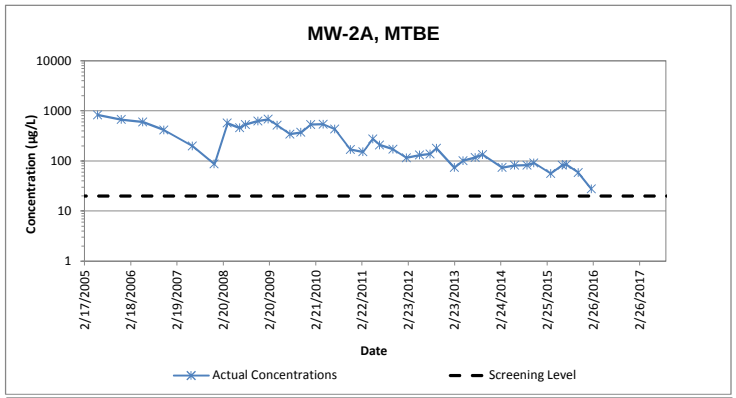
Results		
Coefficient of Determination (R^2) =	0.4241	
p-Value =	7.15E-06	
Attenuation Rate in Groundwater (K) =	0.0002	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0001	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	3.01E+03	days

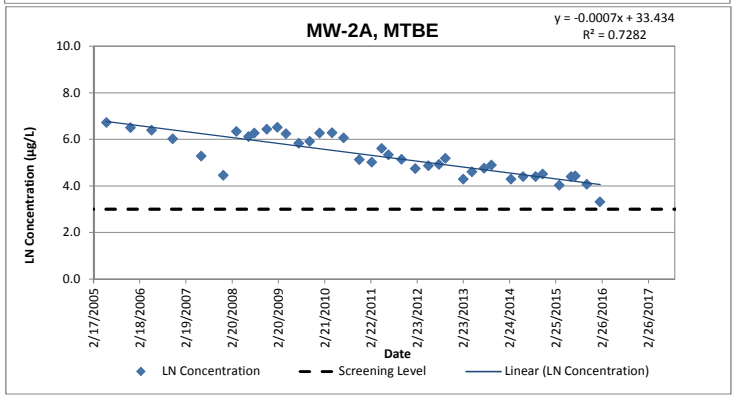
Date Screening Level Reached	
Screening Level	700.0
LN Screening Level	6.6
Intercept	16.675
Slope	-0.0002
Date to Screening Level	2020

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-2A**
Constituent MTBE

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**829**	6.72
12/7/2005	**670**	6.51
5/24/2006	**599**	6.40
11/7/2006	**413**	6.02
6/21/2007	**198**	5.29
12/11/2007	**86.4**	4.46
3/24/2008	**568**	6.34
6/29/2008	**457**	6.12
8/14/2008	**531**	6.27
11/20/2008	**624**	6.44
2/11/2009	**680**	6.52
4/21/2009	**516**	6.25
7/31/2009	**341**	5.83
10/27/2009	**371**	5.92
1/12/2010	**532**	6.28
4/21/2010	**538**	6.29
7/22/2010	**430**	6.06
11/23/2010	**169**	5.13
3/2/2011	**151**	5.02
5/19/2011	**274**	5.61
7/12/2011	**207**	5.33
10/24/2011	**171**	5.14
2/8/2012	**115**	4.74
5/22/2012	**131**	4.88
8/14/2012	**138**	4.93
10/4/2012	**179**	5.19
2/22/2013	**73.4**	4.30
5/1/2013	**101**	4.62
8/6/2013	**117**	4.76
10/3/2013	**133**	4.89
3/6/2014	**73.6**	4.30
6/12/2014	**81.4**	4.40
9/19/2014	**82.1**	4.41
11/13/2014	**90.8**	4.51
3/25/2015	**56.2**	4.03
6/25/2015	**82.0**	4.41
7/29/2015	**84.0**	4.43
10/29/2015	**58.5**	4.07
2/10/2016	**27.5**	3.31





Data quality	
Total # of data points used in regression	39
# of nondetects	0
% of data as detects	100

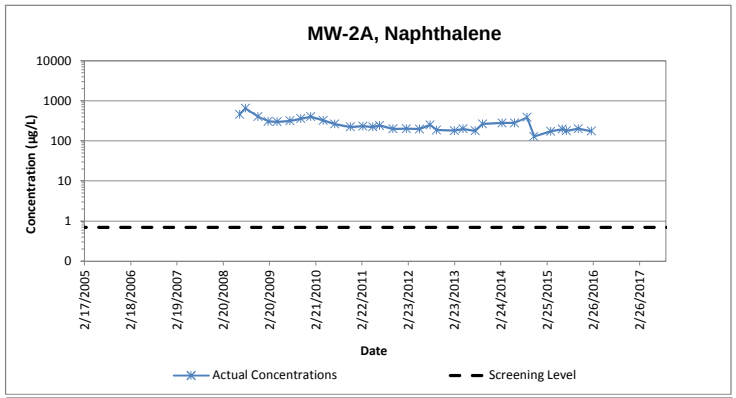
Results		
Coefficient of Determination (R^2) =	0.7282	
p-Value =	5.17E-12	
Attenuation Rate in Groundwater (K) =	0.0007	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0006	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.00E+03	days

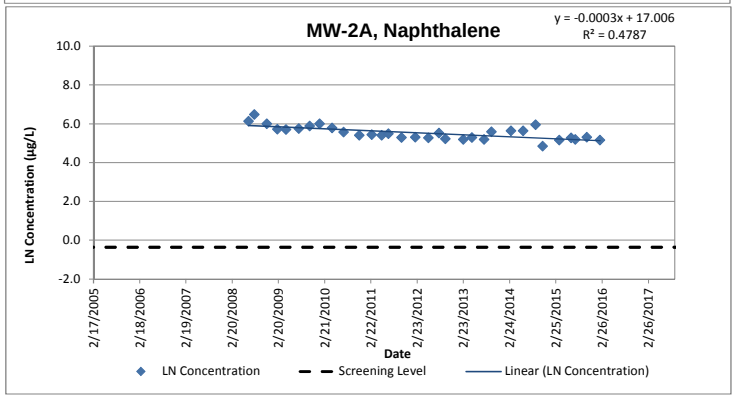
Date Screening Level Reached	
Screening Level	20.0
LN Screening Level	3.0
Intercept	33.434
Slope	-0.0007
Date to Screening Level	2020

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm
MTBE = Methyl Tert Butyl Ether

Sample Information
Sample Location **MW-2A**
Constituent Naphthalene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/29/2008	**462**	6.14
8/14/2008	**652**	6.48
11/20/2008	**405**	6.00
2/11/2009	**306**	5.72
4/21/2009	**299**	5.70
7/31/2009	**316**	5.76
10/27/2009	**360**	5.89
1/12/2010	**402**	6.00
4/21/2010	**325**	5.78
7/22/2010	**262**	5.57
11/23/2010	**223**	5.41
3/2/2011	**232**	5.45
5/19/2011	**222**	5.40
7/12/2011	**243**	5.49
10/24/2011	**200**	5.30
2/8/2012	**201**	5.30
5/22/2012	**197**	5.28
8/14/2012	**252**	5.53
10/4/2012	**187**	5.23
2/22/2013	**181**	5.20
5/1/2013	**199**	5.29
8/6/2013	**179**	5.19
10/3/2013	**266**	5.58
3/6/2014	**280**	5.63
6/12/2014	**280**	5.63
9/19/2014	**386**	5.96
11/13/2014	**128**	4.85
3/25/2015	**174**	5.16
6/25/2015	**196**	5.28
7/29/2015	**179**	5.19
10/29/2015	**202**	5.31
2/10/2016	**176**	5.17





Data quality	
Total # of data points used in regression	32
# of nondetects	0
% of data as detects	100

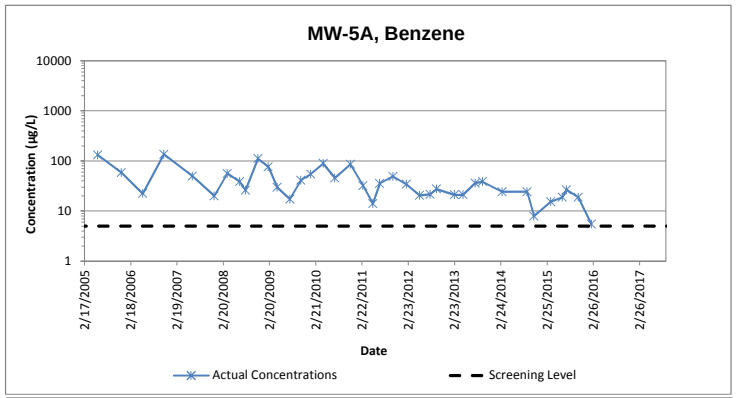
Results		
Coefficient of Determination (R^2) =	0.4787	
p-Value =	1.15E-05	
Attenuation Rate in Groundwater (K) =	0.0003	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0002	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	2.47E+03	days

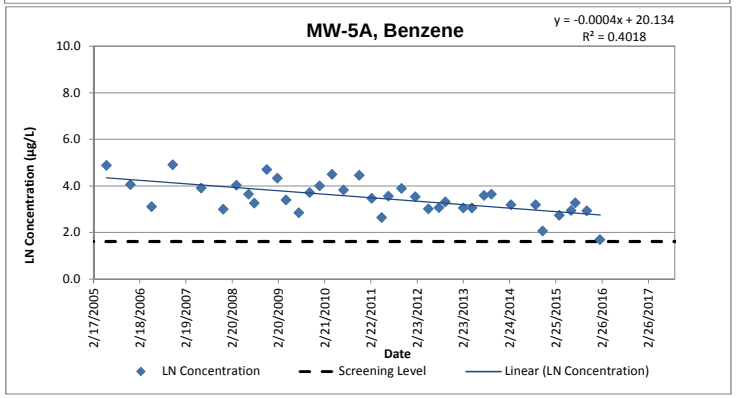
Date Screening Level Reached	
Screening Level	0.7
LN Screening Level	-0.4
Intercept	17.006
Slope	-0.0003
Date to Screening Level	2069

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-5A**
Constituent Benzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**132**	4.88
12/7/2005	**58.2**	4.06
5/24/2006	**22.4**	3.11
11/7/2006	**136**	4.91
6/21/2007	**49.7**	3.91
12/11/2007	**20.1**	3.00
3/24/2008	**56.2**	4.03
6/29/2008	**38.5**	3.65
8/14/2008	**26.0**	3.26
11/20/2008	**111**	4.71
2/11/2009	**76.0**	4.33
4/21/2009	**29.9**	3.40
7/31/2009	**17.3**	2.85
10/27/2009	**41.3**	3.72
1/12/2010	**54.6**	4.00
4/21/2010	**89.3**	4.49
7/22/2010	**45.6**	3.82
11/23/2010	**86.0**	4.45
3/2/2011	**32.1**	3.47
5/19/2011	**14.1**	2.65
7/12/2011	**35.5**	3.57
10/24/2011	**49.1**	3.89
2/8/2012	**34.3**	3.54
5/22/2012	**20.5**	3.02
8/14/2012	**21.5**	3.07
10/4/2012	**27.4**	3.31
2/22/2013	**21.1**	3.05
5/1/2013	**21.1**	3.05
8/6/2013	**36.2**	3.59
10/3/2013	**38.6**	3.65
3/6/2014	**24.3**	3.19
9/19/2014	**24.2**	3.19
11/13/2014	**7.93**	2.07
3/25/2015	**15.4**	2.73
6/25/2015	**18.9**	2.94
7/29/2015	**26.4**	3.27
10/29/2015	**18.8**	2.93
2/10/2016	**5.47**	1.70





Data quality	
Total # of data points used in regression	38
# of nondetects	0
% of data as detects	100

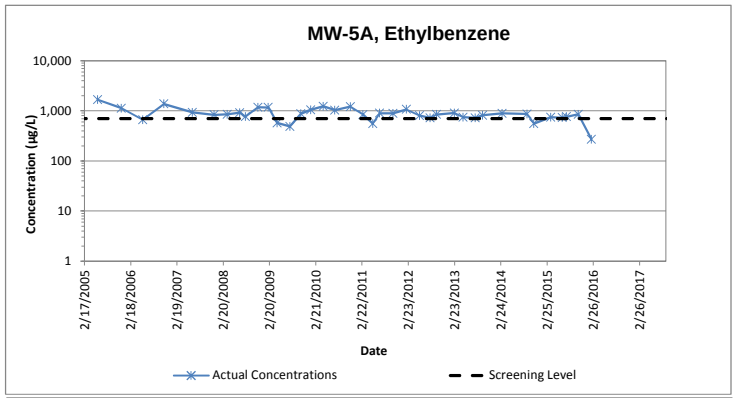
Results		
Coefficient of Determination (R^2) =	0.6390	
p-Value =	1.05E-09	
Attenuation Rate in Groundwater (K) =	0.0005	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0004	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.27E+03	days

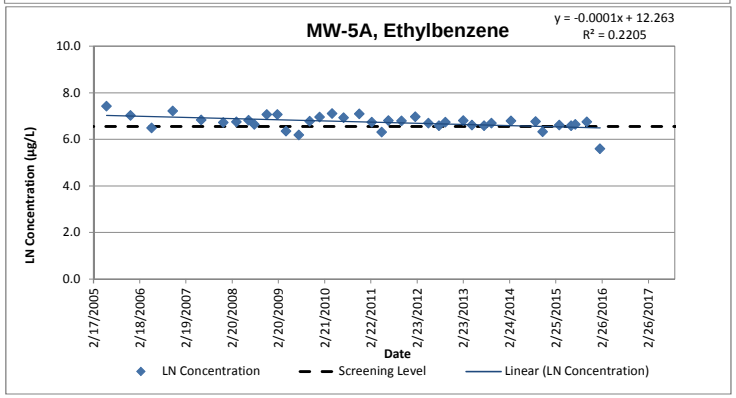
Date Screening Level Reached	
Screening Level	5.0
LN Screening Level	1.6
Intercept	26.699
Slope	-0.0005
Date to Screening Level	2025

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-5A**
Constituent Ethylbenzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**1,670**	7.42
12/7/2005	**1130**	7.03
5/24/2006	661	6.49
11/7/2006	**1,370**	7.22
6/21/2007	**929**	6.83
12/11/2007	**831**	6.72
3/24/2008	**855**	6.75
6/29/2008	**920**	6.82
8/14/2008	**766**	6.64
11/20/2008	**1,180**	7.07
2/11/2009	**1,170**	7.06
4/21/2009	574	6.35
7/31/2009	488	6.19
10/27/2009	**876**	6.78
1/12/2010	**1,050**	6.96
4/21/2010	**1,230**	7.11
7/22/2010	**1,030**	6.94
11/23/2010	**1,210**	7.10
3/2/2011	**841**	6.73
5/19/2011	555	6.32
7/12/2011	**898**	6.80
10/24/2011	**887**	6.79
2/8/2012	**1,070**	6.98
5/22/2012	**805**	6.69
8/14/2012	**726**	6.59
10/4/2012	**845**	6.74
2/22/2013	**901**	6.80
5/1/2013	**747**	6.62
8/6/2013	**722**	6.58
10/3/2013	**813**	6.70
3/6/2014	**892**	6.79
9/19/2014	**864**	6.76
11/13/2014	558	6.32
3/25/2015	**744**	6.61
6/25/2015	**728**	6.59
7/29/2015	**763**	6.64
10/29/2015	**854**	6.75
2/10/2016	270	5.60





Data quality	
Total # of data points used in regression	38
# of nondetects	0
% of data as detects	100

Results		
Coefficient of Determination (R^2) =	0.2205	
p-Value =	2.93E-03	
Attenuation Rate in Groundwater (K) =	0.0001	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0000	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	5.09E+03	days

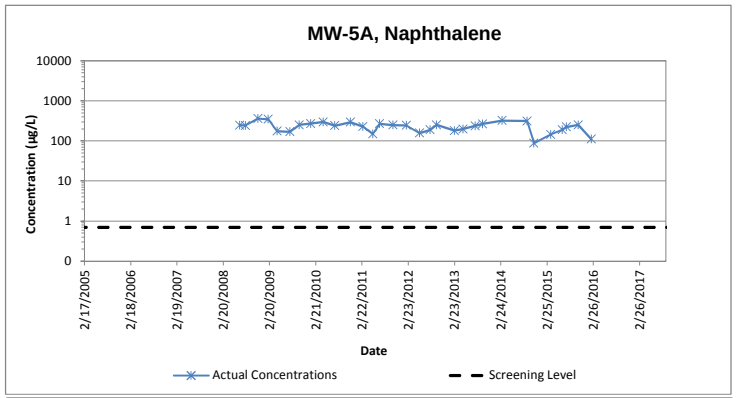
Date Screening Level Reached	
Screening Level	700.0
LN Screening Level	6.6
Intercept	12.263
Slope	-0.0001
Date to Screening Level	2014

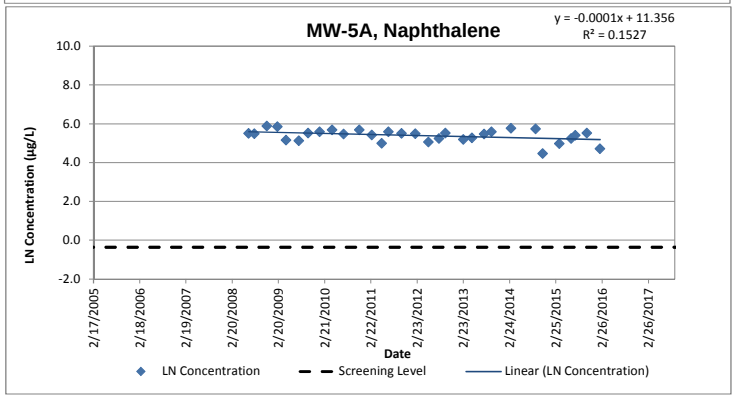
Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-5A**
Constituent Naphthalene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/29/2008	**246**	5.51
8/14/2008	**242**	5.49
11/20/2008	**362**	5.89
2/11/2009	**347**	5.85
4/21/2009	**176**	5.17
7/31/2009	**169**	5.13
10/13/2009	**251**	5.53
1/12/2010	**269**	5.59
4/21/2010	**295**	5.69
7/22/2010	**239**	5.48
11/23/2010	**294**	5.68
3/2/2011	**227**	5.42
5/19/2011	**148**	5.00
7/12/2011	**267**	5.59
10/24/2011	**248**	5.51
2/8/2012	**244**	5.50
5/22/2012	**157**	5.06
8/14/2012	**189**	5.24
10/4/2012	**250**	5.52
2/22/2013	**181**	5.20
5/1/2013	**197**	5.28
8/6/2013	**237**	5.47
10/3/2013	**266**	5.58
3/6/2014	**321**	5.77
9/19/2014	**313**	5.75
11/13/2014	**87.4**	4.47
3/25/2015	**145**	4.98
6/25/2015	**191**	5.25
7/29/2015	**222**	5.40
10/29/2015	**250**	5.52
2/10/2016	**111**	4.71

1000





Data quality	
Total # of data points used in regression	31
# of nondetects	0
% of data as detects	100

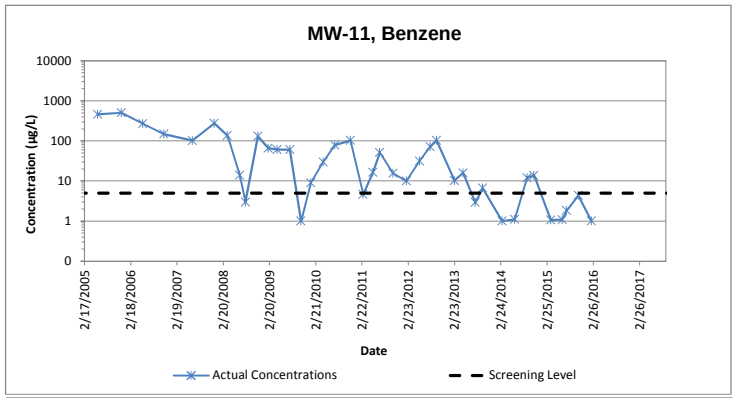
Results		
Coefficient of Determination (R^2) =	0.1527	
p-Value =	2.97E-02	
Attenuation Rate in Groundwater (K) =	0.0001	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0000	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	4.76E+03	days

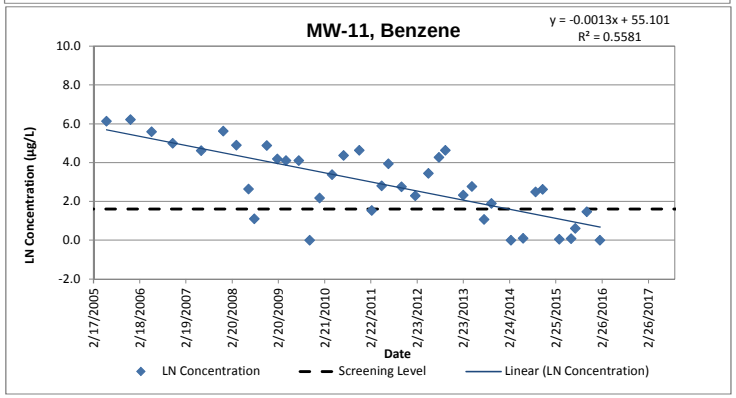
Date Screening Level Reached	
Screening Level	0.7
LN Screening Level	-0.4
Intercept	11.356
Slope	-0.0001
Date to Screening Level	2120

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-11**
Constituent Benzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**461**	6.13
12/7/2005	**504**	6.22
5/24/2006	**270**	5.60
11/7/2006	**148**	5.00
6/21/2007	**102**	4.62
12/11/2007	**275**	5.62
3/24/2008	**135**	4.91
6/29/2008	**14.0**	2.64
8/14/2008	3.0	1.10
11/20/2008	**131**	4.88
2/11/2009	**65.8**	4.19
4/21/2009	**60.6**	4.10
7/31/2009	**60.4**	4.10
10/27/2009	1	0.00
1/12/2010	**8.9**	2.19
4/21/2010	**29.6**	3.39
7/22/2010	**78.7**	4.37
11/23/2010	**103**	4.63
3/2/2011	**4.64**	1.53
5/19/2011	**16.4**	2.80
7/12/2011	**51.6**	3.94
10/24/2011	**15.6**	2.75
2/8/2012	**9.95**	2.30
5/22/2012	**31.4**	3.45
8/14/2012	**71.2**	4.27
10/4/2012	**103**	4.63
2/22/2013	**10.2**	2.32
5/1/2013	**15.9**	2.77
8/6/2013	2.91	1.07
10/3/2013	**6.65**	1.89
3/6/2014	1	0.00
6/12/2014	1.10	0.10
9/19/2014	**12.1**	2.49
11/13/2014	**13.8**	2.62
3/25/2015	1.06	0.06
6/25/2015	1.09	0.09
7/29/2015	1.83	0.60
10/29/2015	4.37	1.47
2/10/2016	1	0.00





Notes:
ND taken at zero

Data quality	
Total # of data points used in regression	39
# of nondetects	3
% of data as detects	92

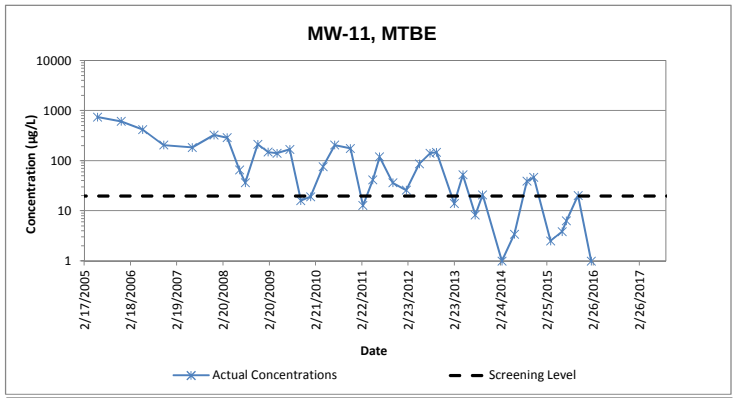
Results		
Coefficient of Determination (R^2) =	0.5581	
p-Value =	4.70E-08	
Attenuation Rate in Groundwater (K) =	0.0013	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0009	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	5.40E+02	days

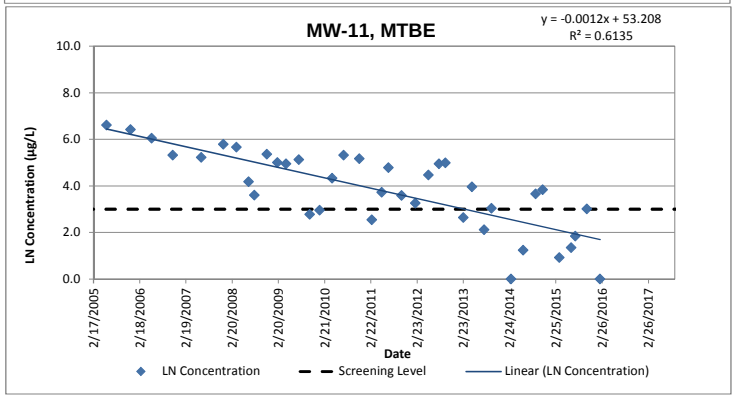
Date Screening Level Reached	
Screening Level	5.0
LN Screening Level	1.6
Intercept	55.101
Slope	-0.0013
Date to Screening Level	2014

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-11**
Constituent MTBE

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**748**	6.62
12/7/2005	**614**	6.42
5/24/2006	**422**	6.05
11/7/2006	**206**	5.33
6/21/2007	**185**	5.22
12/11/2007	**328**	5.79
3/24/2008	**289**	5.67
6/29/2008	**65.4**	4.18
8/14/2008	**36.7**	3.60
11/20/2008	**214**	5.37
2/11/2009	**149**	5.00
4/21/2009	**142**	4.96
7/31/2009	**169**	5.13
10/27/2009	16.1	2.78
1/12/2010	19.2	2.95
4/21/2010	**76.1**	4.33
7/22/2010	**206**	5.33
11/23/2010	**176**	5.17
3/2/2011	12.8	2.55
5/19/2011	**41.7**	3.73
7/12/2011	**120**	4.79
10/24/2011	**36.4**	3.59
2/8/2012	**26**	3.26
5/22/2012	**87.4**	4.47
8/14/2012	**142**	4.96
10/4/2012	**148**	5.00
2/22/2013	14.1	2.65
5/1/2013	**52.4**	3.96
8/6/2013	8.31	2.12
10/3/2013	**21.0**	3.04
3/6/2014	1	0.00
6/12/2014	3.44	1.24
9/19/2014	**39.1**	3.67
11/13/2014	**46.5**	3.84
3/25/2015	2.52	0.92
6/25/2015	3.87	1.35
7/29/2015	6.38	1.85
10/29/2015	**20.3**	3.01
2/10/2016	1	0.00





Notes:
ND taken at zero

Data quality	
Total # of data points used in regression	39
# of nondetects	2
% of data as detects	95

Results		
Coefficient of Determination (R^2) =	0.6135	
p-Value =	3.77E-09	
Attenuation Rate in Groundwater (K) =	0.0012	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0009	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	5.71E+02	days

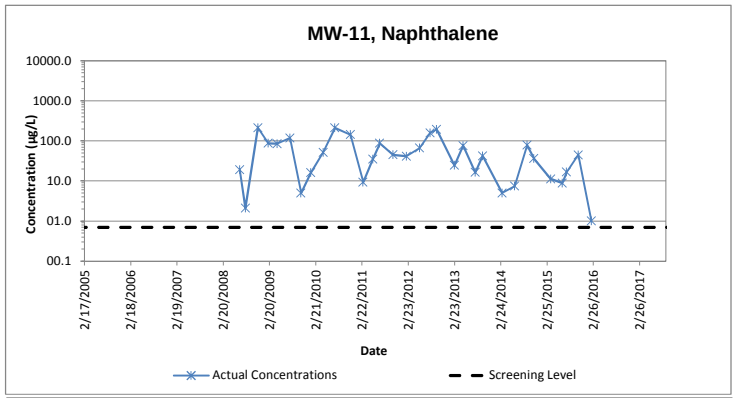
Date Screening Level Reached	
Screening Level	20.0
LN Screening Level	3.0
Intercept	53.208
Slope	-0.0012
Date to Screening Level	2013

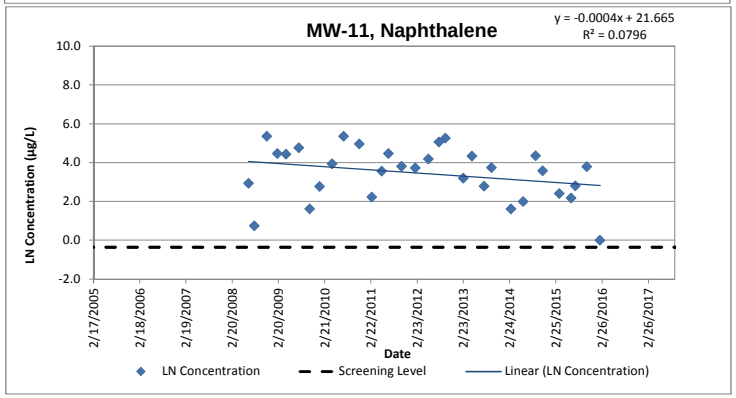
Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm
MTBE = Methyl Tert Butyl Ether

Sample Information
Sample Location **MW-11**
Constituent Naphthalene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/29/2008	**19.0**	2.94
8/14/2008	**2.1**	0.74
11/20/2008	**212**	5.36
2/11/2009	**87.3**	4.47
4/21/2009	**84.9**	4.44
7/31/2009	**118**	4.77
10/27/2009	5	1.61
1/12/2010	**16.0**	2.77
4/21/2010	**51.8**	3.95
7/22/2010	**213**	5.36
11/23/2010	**143**	4.96
3/2/2011	**9.29**	2.23
5/19/2011	**35.2**	3.56
7/12/2011	**87.5**	4.47
10/24/2011	**44.8**	3.80
2/8/2012	**41.5**	3.73
5/22/2012	**65.9**	4.19
8/14/2012	**157**	5.06
10/4/2012	**193**	5.26
2/22/2013	**24.6**	3.20
5/1/2013	**76**	4.33
8/6/2013	**16.3**	2.79
10/3/2013	**42.2**	3.74
3/6/2014	5	1.61
6/12/2014	**7.40**	2.00
9/19/2014	**77.8**	4.35
11/13/2014	**36.1**	3.59
3/25/2015	**11.2**	2.42
6/25/2015	**8.86**	2.18
7/29/2015	**16.6**	2.81
10/29/2015	**44.5**	3.80
2/10/2016	1	0.00

1000





Notes:

	ND taken at zero
	Qualified data

Data quality	
Total # of data points used in regression	32
# of nondetects	3
% of data as detects	91

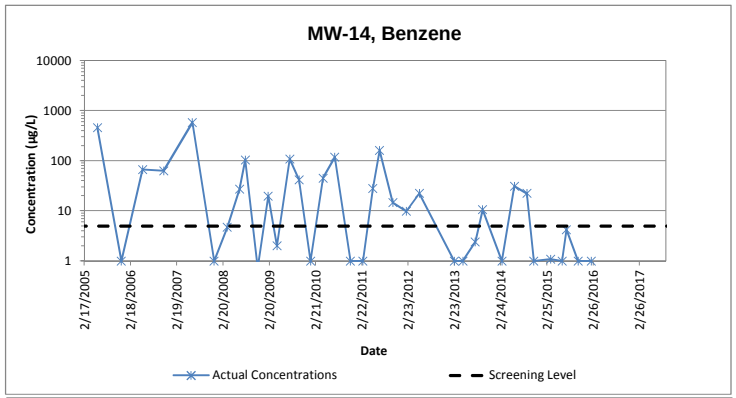
Results		
Coefficient of Determination (R^2) =	0.0796	
p-Value =	1.18E-01	
Attenuation Rate in Groundwater (K) =	0.0004	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	-0.0001	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.56E+03	days

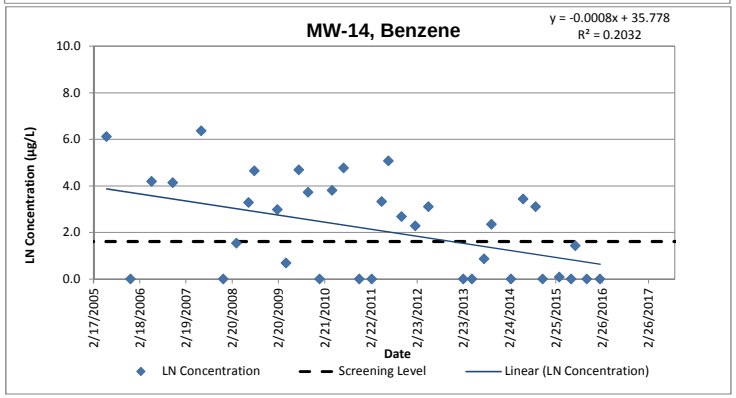
Date Screening Level Reached	
Screening Level	0.7
LN Screening Level	-0.4
Intercept	21.665
Slope	-0.0004
Date to Screening Level	2035

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-14**
Constituent Benzene

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**456**	6.12
12/7/2005	1	0.00
5/24/2006	**66.7**	4.20
11/7/2006	**62.9**	4.14
6/21/2007	**580**	6.36
12/11/2007	1	0.00
3/24/2008	4.7	1.55
6/29/2008	**27.0**	3.30
8/14/2008	**104**	4.64
11/20/2008	0.72	-0.33
2/11/2009	**19.8**	2.99
4/21/2009	2.0	0.69
7/31/2009	**109**	4.69
10/13/2009	**41.7**	3.73
1/12/2010	1	0.00
4/21/2010	**45**	3.81
7/22/2010	**118**	4.77
11/23/2010	1	0.00
3/2/2011	1	0.00
5/19/2011	**28.1**	3.34
7/12/2011	**161**	5.08
10/24/2011	**14.6**	2.68
2/8/2012	**9.79**	2.28
5/22/2012	**22.4**	3.11
2/22/2013	1	0.00
5/1/2013	1	0.00
8/6/2013	2.4	0.88
10/3/2013	**10.6**	2.36
3/6/2014	1	0.00
6/12/2014	**31.2**	3.44
9/19/2014	**22.3**	3.10
11/13/2014	1	0.00
3/25/2015	1.09	0.09
6/25/2015	1	0.00
7/29/2015	4.21	1.44
10/29/2015	1	0.00
2/10/2016	1	0.00





Notes:

	ND taken at zero
	Qualified data

Data quality	
Total # of data points used in regression	37
# of nondetects	12
% of data as detects	68

Less than 75% data above reporting limits.

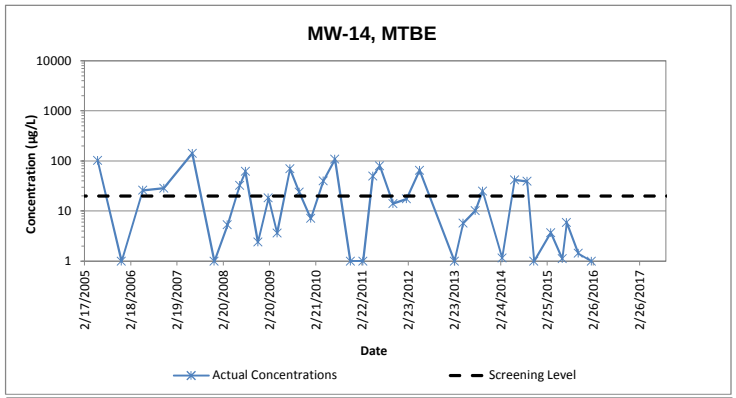
Results		
Coefficient of Determination (R^2) =	0.2032	
p-Value =	5.11E-03	
Attenuation Rate in Groundwater (K) =	0.0008	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0003	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	8.36E+02	days

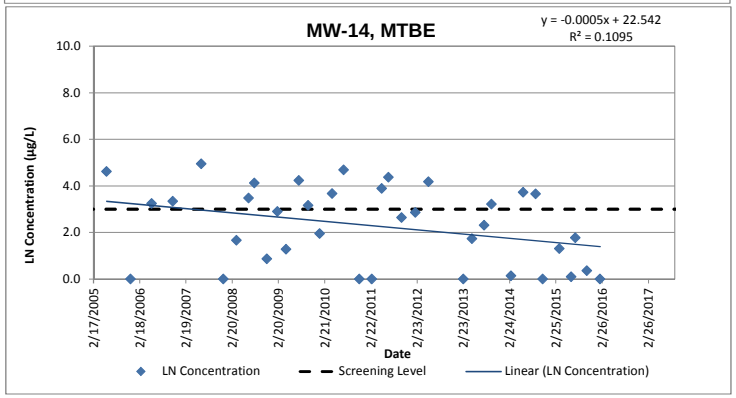
Date Screening Level Reached	
Screening Level	5.0
LN Screening Level	1.6
Intercept	35.778
Slope	-0.0008
Date to Screening Level	2012

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm

Sample Information
Sample Location **MW-14**
Constituent MTBE

Data		
Sample Date	Concentration	LN Concentration
	(ug/L)	
6/1/2005	**102**	4.62
12/7/2005	1	0.00
5/24/2006	**25.9**	3.25
11/7/2006	**28.5**	3.35
6/21/2007	**142**	4.96
12/11/2007	1	0.00
3/24/2008	5.3	1.67
6/29/2008	**32.5**	3.48
8/14/2008	**61.7**	4.12
11/20/2008	2.4	0.88
2/11/2009	18.2	2.90
4/21/2009	3.6	1.28
7/31/2009	**69.6**	4.24
10/13/2009	**23.7**	3.17
1/12/2010	7.1	1.96
4/21/2010	**39.6**	3.68
7/22/2010	**109**	4.69
11/23/2010	1	0.00
3/2/2011	1	0.00
5/19/2011	**49.4**	3.90
7/12/2011	**79.1**	4.37
10/24/2011	14.1	2.65
2/8/2012	17.4	2.86
5/22/2012	**65.1**	4.18
2/22/2013	1	0.00
5/1/2013	5.7	1.74
8/6/2013	10.1	2.31
10/3/2013	**24.9**	3.21
3/6/2014	1.15	0.14
6/12/2014	**41.7**	3.73
9/19/2014	**39.0**	3.66
11/13/2014	1.0	0.00
3/25/2015	3.69	1.31
6/25/2015	1.11	0.10
7/29/2015	5.88	1.77
10/29/2015	1.43	0.36
2/10/2016	1	0.00





Notes:
ND taken at zero

Data quality	
Total # of data points used in regression	37
# of nondetects	7
% of data as detects	81

Results		
Coefficient of Determination (R^2) =	0.1095	
p-Value =	4.54E-02	
Attenuation Rate in Groundwater (K) =	0.0005	$days^{-1}$
Attenuation Rate in Groundwater at 90% confidence (K) =	0.0000	$days^{-1}$
Chemical Half Life in Groundwater ($t_{1/2}$) =	1.39E+03	days

Date Screening Level Reached	
Screening Level	20.0
LN Screening Level	3.0
Intercept	22.542
Slope	-0.0005
Date to Screening Level	2007

Abbreviations and Notes
ug/l = micrograms per liter
LN = Natural Logarithm
MTBE = Methyl Tert Butyl Ether

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