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Subject:
September 2016 Annual Groundwater and Semiannual Surface Water Sampling Report, Former Ashland Facility, Greensboro, North Carolina
EPA ID No: NCD 024 599 011

ENVIRONMENT

Date:
February 7, 2017

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919-415-2265

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Our ref:
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Dear Mr. Babuin:

On behalf of Ashland LLC (Ashland), Arcadis G&M of North Carolina, Inc. (Arcadis) is pleased to submit this report summarizing results of the September 2016 annual groundwater sampling event and two semiannual surface water sampling events in March and September 2016 at the former Ashland facility (the "Facility") in Greensboro, North Carolina. The investigation area within and downgradient of the Facility is herein referred to as the "Site." The groundwater and surface water monitoring events were performed by Antea Group (Antea) of Charlotte, North Carolina, under the direction of Arcadis and in accordance with the sampling and analysis plan included in the Corrective Measures Study (CMS) submitted to the North Carolina Department of Environmental Quality (NCDEQ) on October 3, 2014 (Arcadis 2014). Monitoring activities included groundwater elevation measurements, groundwater field parameter measurements, well-head inspections, and groundwater and surface water sampling. The layout of the Site and surrounding properties is depicted on **Figure 1** and the Site well network is depicted on **Figure 2**.

ANNUAL GROUNDWATER MONITORING ACTIVITIES

Depth-to-Groundwater Measurements and Potentiometric Surface Results

On September 19, 2016, Antea gauged the depths-to-groundwater in all accessible monitoring wells in the Ashland monitoring well network using a QED® oil/water interface probe. To prevent cross-contamination, the water level meter was cleaned with a distilled water and Alconox solution, and then rinsed with distilled water prior to insertion into each monitoring well.

Depth-to-groundwater measurements were used to calculate groundwater elevations and to generate a groundwater potentiometric surface map for the shallow aquifer zone at the Site. Screen intervals, total depths, top of casing elevations, depth-to-groundwater measurements, and groundwater elevations for each monitoring well are presented in **Table 1**. Groundwater elevations and the groundwater potentiometric surface elevation in the shallow aquifer zone are shown on **Figure 3**.

The horizontal potentiometric gradient in the shallow aquifer generally ranged between 0.026 feet per foot (ft/ft) and 0.037 ft/ft toward the southeast across the Site based on evaluation of the groundwater elevations measured in September 2016. The groundwater gradients in September 2016 were similar to historical average gradients.

The vertical hydraulic gradients between shallow and deep monitoring well pairs within the identified plume extent during the September 2016 monitoring event ranged from 0.046 ft/ft upward at MW-2/2D to 0.062 ft/ft downward measured at MW-22/22BR and were generally consistent with historical gradients. The well pair MW-29S/D, closest to the unnamed stream, had an upward vertical gradient of 0.029 ft/ft in September 2016 which suggests that the unnamed stream continues to be a discharge zone for groundwater in the saprolite (shallow) and partially weathered rock (deep) aquifer zones.

Monitor Well Sampling Methodologies

Antea purged each of the each monitoring well selected for sampling under low-flow conditions (approximately 200 milliliters per minute) after collecting water level measurements. Dedicated QED® bladder pumps were present in each monitoring well installed prior to 2006. Monitoring wells MW-27S/D, MW-29S/D, and MW-30, installed after 2006, are not equipped with dedicated bladder pumps; therefore, these wells were purged with a Monsoon electric submersible pump, which was decontaminated before insertion into each well.

Field parameters including temperature, pH, dissolved oxygen, oxidation-reduction potential, and electrical conductivity were measured during purging using a YSI Pro multi-parameter probe to ensure that groundwater conditions had stabilized prior to collecting samples for laboratory analysis. Copies of the field sampling logs are included in **Attachment 1**.

After the parameters had stabilized, a groundwater sample was collected in laboratory-provided bottles. Each sample bottle was appropriately labeled with the sample number, collection time and date, and the required laboratory analysis. All sample bottles were then placed in an ice-filled cooler along with chain-of-custody documentation and shipped via FedEx to TestAmerica in Savannah, Georgia - a North Carolina State-certified laboratory. Samples were analyzed for volatile organic compounds (VOCs) by United States Environmental Protection Agency (USEPA) Method 8260B and samples from five monitoring wells were analyzed for semi-volatile organic compounds (SVOCs) by USEPA Method 8270C. Purged groundwater was containerized in a 55-gallon steel drum stored at the Facility and was picked up for proper disposal on Novemver 19, 2016. A copy of the waste manifest is included in **Attachment 2.**

Quality assurance/quality control samples were also collected to confirm the laboratory data and field procedure quality. Two duplicate samples were collected for VOC analyses from monitoring wells MW-12D and MW-16 for quality assurance purposes. Results for the duplicate samples were within acceptable quality control limits.

Groundwater Analytical Results

Analytical results for all detected constituents and field parameters from the September 2016 sampling event are presented in **Table 2** and a tabulated summary of historical groundwater data is included in **Attachment 3**. The laboratory data reports from the September 2016 groundwater sampling, including chain-of-custody documentation, are provided in **Attachment 4**.

Constituent concentrations in most monitoring wells were generally stable or fluctuating over time with no discernable trends based on review of the September 2016 data and historical data with two wells showing some attenuation of PCE concentrations over time. Monitoring well MW-7S continued to exhibit significant attenuation with PCE detected at 1.7 micrograms per liter (µg/L) in September 2016 versus a range from 3.2 to 1,900 µg/L during previous sampling events since 1994 (see **Attachment 3** for histoic data). Monitoring well MW-3 continues to show moderate attenuation and some fluctuations over time with PCE detected at 15,000 µg/L in September 2016 versus a range from 13,000 to 51,000 µg/L since 1998. A review of the analytical data suggests that no wells in the monitoring program exhibit increasing treads over time. The historical data generally showed a steady-state groundwater plume with moderate concentration changes in upgradient (source area) locations.

EVIDENCE OF ATTENUATION

PCE and trichloroethene (TCE) concentrations in groundwater samples demonstrated significant attenuation with distance downgradient. Along the western portion of the plume, PCE decreased from 20,000 µg/L in source area well MW-6R to 1,100 and 1,200 µg/L in downgradient wells MW-27S and MW-27D, respectively. Even stronger attenuation was observed along the eastern portion of the plume where PCE decreased from 53,000 µg/L in well MW-16 to 80 and 390 µg/L in downgradient wells MW-29S and MW-29D, respectively. Those data suggest that attenuation of constituents of potential concern (COPC) is occuring within groundwater as it migrates downgradient of the source.

SURFACE WATER MONITORING ACTIVITIES AND RESULTS

Antea collected surface water samples from the unnamed stream on March 10, 2016 and September 29, 2016 for laboratory analysis of VOCs by USEPA Method 8260B. The unnamed stream originates approximately 1,200 feet southeast of the Facility, flows south to southwest, and eventually merges with South Buffalo Creek approximately 4,000 feet south of the Facility. Surface water sample locations are shown on **Figure 2**. Analytical results from the March and September 2016 surface water sampling events are provided in **Table 3** and the laboratory data reports, including chain-of-custody documentation, are provided in **Attachment 4**. Historical surface water results are summarized in **Table 4**.

Surface water sample results indicated that several target constituents, including PCE; TCE; cis-1,2-dichloroethene; and 1,1-dichloroethene were detected in most of the surface water samples collected in March and September 2016. Most of the constituents were detected at concentrations less than the Arcadis-derived health-based goals (HBGs) (Arcadis 2013). Consistent with the prior sampling events, PCE was detected at surface water sample locations SW-5 and SW-6 at concentrations greater than the HBGs for an adult wader. Because these constituents occur at their highest concentrations at or downgrading of surface water sample locations SW-5, their existence is at least partially attributable to

other industrial sources with documented soil and groundwater impacts located west of Ashland's former facility (Arcadis 2013).

CONCLUSIONS

Based on the result of the groundwater and surface water sampling events discussed herein, the extent of COPCs originating from the Facility appear to be well defined by the existing monitoring well network. Also, attenuation of the COPCs continues to occur over the migration pathway from the Facility to the Unnamed Stream. Although periodic concentration fluctuations have been observed over time, the COPC plume appears to have generally reached steady-state conditions and is not increasing in size or concentration. These results are consistent with the conclusions of the RCRA Facility Investigation (Arcadis 2013).

An evaluation of groundwater conditions and recommendation for final corrective measures for groundwater was presented within the CMS submitted to NCDEQ in October 2014 (Arcadis 2014). Recommendations for final corrective measures for groundwater were soil source area treatment in conjunction with monitored natural attenuation. Arcadis designed the final corrective measures in 2015 and submitted the Corrective Measures Implementation Work Plan to the NCDEQ on February 4, 2016 (Arcadis 2016).

CLOSING STATEMENT

By providing my signature below, I certify that, to the best of my knowledge and after thorough investigation, the information contained in or accompanying this certification is true, accurate, and complete. Please let me know if you request any clarification of the information provided. Should you have any questions or require additional information, please contact Ryan Gerber at 919-415-2265.

Sincerely,

Arcadis G&M of North Carolina, Inc.

Ryan M. Gerber
Senior Project Engineer

Copies:
Michael Dever - Ashland

Enclosures:

Tables

1 Summary of Groundwater Elevation Measurements, September 19, 2016
2 Summary of Groundwater Analytical Results, September 2016
3 Summary of Surface Water Analytical Results, March and September 2016
4 Historical Surface Water Analytical Results at Primary Sample Locations

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1 Site Layout
2 Regional Site Layout
3 Shallow Aquifer Groundwater Elevations Measured September 19, 2016

Attachments

1 Field Sampling Logs
2 Investigation-Derived Waste Disposal Manifest
3 Summary of Historical Groundwater Analytical Results
4 Analytical Laboratory Data Reports

References

Arcadis 2013. Comprehensive RCRA Facility Investigation Report – Phase III. Former Ashland Distribution Facility, Greensboro, North Carolina. September.

Arcadis 2014. Corrective Measures Study. Former Ashland Inc. Facility, Greensboro, North Carolina. October 3.

Arcadis 2016. Corrective Measures Implementation Work Plan for In Situ Solidification. Former Ashland Inc. Facility, Greensboro, North Carolina. February 4.

Tables

Table 1
Summary of Groundwater Elevation Measurements, September 19, 2016
Former Ashland Facility, Greensboro, North Carolina

Location	Screen Interval (ft bls)		Total Depth (ft bls)	TOC Elevation (ft msl)	Depth to Groundwater (ft)	Groundwater Elevation (ft msl)
MW-1	20.0	30.0	32.5	858.12	18.16	839.96
MW-1D	49.9	59.9	62.7	859.12	19.58	839.54
MW-2	16.0	26.0	27.2	855.30	17.61	837.69
MW-2D	49.0	59.0	60.6	855.55	16.35	839.20
MW-2BR	130.0	140.0	140.0	855.30	16.65	838.65
MW-3	15.5	25.5	25.7	856.06	11.51	844.55
MW-5R	5.1	20.1	22.6	857.03	NM	NM
MW-6R	5.5	20.5	21.2	856.96	10.47	846.49
MW-7S	12.5	22.5	22.8	855.92	10.10	845.82
MW-7M	38.6	48.6	50.2	855.99	10.74	845.25
MW-7D	50.9	60.9	62.1	855.95	10.78	845.17
MW-7BR	82.5	100.0	100.0	855.78	NM	NM
MW-8	11.3	21.3	20.8	853.76	15.71	838.05
MW-8D	49.6	59.6	59.5	853.76	15.73	838.03
MW-9	13.6	23.6	23.5	853.55	13.70	839.85
MW-10	5.6	15.6	15.7	856.39	NM	NM
MW-11	12.1	22.1	19.1	853.22	16.59	836.63
MW-11D	90.0	100.0	100.0	852.46	15.81	836.65
MW-11BR	146.5	156.5	156.5	851.49	15.71	835.78
MW-12	11.7	21.7	21.8	850.27	13.76	836.51
MW-12D	49.0	59.0	58.9	850.26	13.85	836.41
MW-13	11.5	21.5	23.6	863.66	20.03	843.63
MW-14	12.1	22.2	24.2	866.39	16.81	849.58
MW-14D	41.6	51.6	54.5	867.38	14.05	853.33
MW-15	12.6	22.6	22.5	866.62	17.27	849.35
MW-16	10.2	20.3	22.6	854.59	12.04	842.55
MW-17D	49.2	59.2	59.0	844.88	16.07	828.81
MW-18	82.8	92.8	87.7	867.39	14.70	852.69
MW-19	85.2	95.2	94.6	855.80	16.60	839.20
MW-20	85.0	95.0	94.5	855.64	16.31	839.33
MW-21	140.0	150.0	150.0	857.18	17.32	839.86
MW-22	76.0	86.0	86.0	845.52	26.75	818.77
MW-22BR	130.0	140.0	140.0	845.69	30.24	815.45
MW-23S	5.5	20.5	20.5	845.27	14.21	831.06
MW-23D	65.2	75.2	75.2	845.04	14.56	830.48
MW-24S	10.9	24.9	24.9	858.86	13.60	845.26
MW-24D	55.9	65.9	65.9	859.19	14.23	844.96
MW-25S	5.2	20.2	20.2	851.11	9.55	841.56
MW-25D	39.2	49.2	49.2	851.16	9.30	841.86
MW-26S	5.2	15.2	15.2	850.87	10.75	840.12
MW-26D	20.4	30.4	30.4	851.48	11.22	840.26
MW-27S	7.9	22.9	22.8	833.05	10.46	822.59
MW-27D	56.1	66.1	66.1	833.39	10.55	822.84
MW-28S	9.4	24.4	24.4	824.35	13.56	810.79
MW-28D	38.4	48.4	48.4	824.18	13.57	810.61
MW-29S	3.2	8.2	8.2	811.08	6.67	804.41
MW-29D	10.5	20.5	20.5	811.19	6.50	804.69
MW-29BR	80.0	90.0	90.0	811.42	8.25	803.17
MW-30S	6.1	16.1	16.1	807.54	8.23	799.31
MW-31S	20.0	30.0	30.0	865.96	7.25	858.71
MW-31D	43.0	53.0	53.0	865.92	15.58	850.34

Notes:

ft	Feet
ft bls	Feet below land surface.
TOC	Top of casing
ft msl	Feet above mean sea level.
NA	Not available.

Table 2
Summary of Groundwater Analytical Results - September 2016
Former Ashland Facility, Greensboro, North Carolina

	Sample Location:	**MW-3**	**MW-6R**	**MW-7S**	**MW-7M**	**MW-7D**	**MW-7BR**
	Lab Sample ID:	680-130081-1	680-130081-2	680-130081-3	680-130081-4	680-130081-5	680-130081-6
	Date Sampled:	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016
Field Parameters	2L Groundwater Standard[a]						
Temperature (°C)	NE	23.0	22.4	23.0	23.1	23.6	20.4
pH (standard units)	6.5 - 8.5	**4.3**	**5.3**	**4.9**	**6.4**	**5.4**	7.0
Dissolved Oxygen (mg/L)	NE	1.3	0.5	4.8	0.8	0.9	0.0
Specific Conductance (µS/cm)	NE	716	291	238	271	106	1641
Oxidation-Reduction Potential (mV)	NE	211	82	191	108	149	-167
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	<2500	<5000	<10	<200	<500	<200
Benzene	1	<250	<500	<1.0	<20	<50	<200
Carbon tetrachloride	0.3	<250	<500	<1.0	<20	<50	<200
Chloroform	70	<250	<500	<1.0	**93**	<50	<200
1,2-Dichlorobenzene	20	<250	**2,300**	<1.0	**190**	**60**	**1,700**
1,4-Dichlorobenzene	6	<250	<500	<1.0	**20**	<50	<200
1,1-Dichloroethane	6	**390**	<500	<1.0	**440**	**76**	**1,200**
1,2-Dichloroethane	0.4	<250	<500	<1.0	<20	<50	<200
1,1-Dichloroethene	350	**1,800**	<500	<1.0	**1,100**	**330**	**920**
cis-1,2-Dichloroethene	70	**6,700**	**7,400**	<1.0	**580**	**170**	**9,700**
1,2-Dichloropropane	0.6	<250	<500	<1.0	<20	<50	<200
Ethylbenzene	600	<250	<500	<1.0	<20	<50	**1,300**
Methylene chloride	5	<1,300	<2,500	<1.0	<100	<250	<200
Tetrachloroethene	0.7	**15,000**	**20,000**	**1.7**	**5,500**	**3,000**	**640**
Toluene	600	<250	**4,000**	<1.0	<20	<50	**7,200**
1,1,1-Trichloroethane	200	<250	**3,600**	<1.0	**420**	<50	<200
Trichloroethene	3	**6,100**	**880**	<1.0	**540**	**400**	**850**
Vinyl chloride	0.03	<250	<500	<1.0	<20	<50	**2,400**
Xylenes, total	500	<250	**2,600**	<1.0	**490**	**73**	**4,800**
				<1.0			
SVOCs (USEPA Method 8270D) µg/L							
1,2-Dichlorobenzene	20	NA	**880 J**	<0.19	NA	**47**	NA
1,3-Dichlorobenzene	200	NA	<49 R	<0.19	NA	**1.1**	NA
1,4-Dichlorobenzene	6	NA	**98 J**	<0.19	NA	**4.4**	NA
1,4-Dioxane	3	NA	<2.0	<1.9	NA	**15**	NA
Di-n-butyl phthalate	700	NA	**8.5 J**	<0.96	NA	<0.96	NA
2-Methylnaphthalene	30	NA	**2.1 J**	<0.19	NA	**2.8**	NA
3&4 Methylphenol	40[c]	NA	**4.7 J**	<1.9	NA	<1.9	NA
Naphthalene	6	NA	**14 J**	<0.19	NA	**6.9**	NA
Phenol	30	NA	**1.4**	<0.96	NA	<0.96	NA
1,2,4-Trichlorobenzene	70	NA	**210 J**	<0.96	NA	**34**	NA

Notes:

a	Title 15A North Carolina Administrative Code (NCAC) Subchapter 2L Groundwater Quality Standards
b	Field duplicate sample associated with MW-16.
<	Constituent was not detected above the laboratory reporting limit
°C	Degrees celsius.
J	Compound concentration is qualified as estimated.
R	Non-detected data was rejected due to poor recovery of matrix spike
mg/L	Milligrams per liter.
mV	Millivolts.
NA	Not analyzed.
NE	Water quality criteria not established.
µg/L	Micrograms per liter.
µS/cm	Microsiemens per centimer.
Bold	Constituent was detected above the laboratory reporting limit
	Value exceeds the NCAC 2L Standard.
[64]	Values in brackets are duplicate sample results

Table 2
Summary of Groundwater Analytical Results - September 2016
Former Ashland Facility, Greensboro, North Carolina

	Sample Location:	**MW-11**	**MW-12**	**MW-12D**	**MW-16**	**MW-17D**	**MW-19**
	Lab Sample ID:	680-130081-7	680-130081-8	680-130081-9	680-130081-10	680-130081-11	680-130081-12
	Date Sampled:	9/19/2016	9/20/2016	9/20/2016	9/20/2016	9/19/2016	9/20/2016
Field Parameters	2L Groundwater Standard[a]						
Temperature (°C)	NE	20.3	22.8	21.4	23.0	22.4	22.8
pH (standard units)	6.5 - 8.5	**4.1**	**5.3**	**6.3**	**4.5**	**5.7**	**6.2**
Dissolved Oxygen (mg/L)	NE	2.6	4.4	3.7	2.3	1.3	0.7
Specific Conductance (µS/cm)	NE	400	55	183	114	160	217
Oxidation-Reduction Potential (mV)	NE	567	268	198	243	223	57
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	<2000	<10	<500 [<500]	<10,000 [<5,000]	<250	<2000
Benzene	1	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	**220**
Carbon tetrachloride	0.3	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
Chloroform	70	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
1,2-Dichlorobenzene	20	<200	<1.0	**1.5**	<1,000 [<500]	<25	<200
1,4-Dichlorobenzene	6	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
1,1-Dichloroethane	6	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
1,2-Dichloroethane	0.4	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
1,1-Dichloroethene	350	**2,200**	<1.0	**280 [250]**	<1,000 [<500]	**100**	**780**
cis-1,2-Dichloroethene	70	**7,400**	<1.0	**350 [340]**	<1,000 [<500]	**270**	**2,300**
1,2-Dichloropropane	0.6	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
Ethylbenzene	600	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
Methylene chloride	5	<1000	<5.0	<250 [<250]	<5,000 [<2,500]	<130	<1000
Tetrachloroethene	0.7	**5,700**	**9.3**	**880 [850]**	**53,000 [51,000]**	**3,000**	**20,000**
Toluene	600	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
1,1,1-Trichloroethane	200	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
Trichloroethene	3	**12,000**	**21**	**5,100 [4,500]**	<1,000 [<500]	**1,400**	**4,500**
Vinyl chloride	0.03	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
Xylenes, total	500	<200	<1.0	<50 [<50]	<1,000 [<500]	<25	<200
SVOCs (USEPA Method 8270D) µg/L							
1,2-Dichlorobenzene	20	**2.6**	NA	**1.5 [1.2]**	NA	NA	NA
1,3-Dichlorobenzene	200	<0.96	NA	<0.96	NA	NA	NA
1,4-Dichlorobenzene	6	**3.1**	NA	<0.96	NA	NA	NA
1,4-Dioxane	3	**280**	NA	**530 [470]**	NA	NA	NA
Di-n-butyl phthalate	700	<0.96	NA	<0.96	NA	NA	NA
2-Methylnaphthalene	30	<0.96	NA	<0.96	NA	NA	NA
3&4 Methylphenol	40[c]	<1.9	NA	<1.9	NA	NA	NA
Naphthalene	6	<0.96	NA	<0.96	NA	NA	NA
Phenol	30	<0.96	NA	<0.96	NA	NA	NA
1,2,4-Trichlorobenzene	70	**1.6**	NA	<0.96	NA	NA	NA

Notes:

a	Title 15A North Carolina Administrative Code (NCAC) Subchapter 2L Groundwater Quality Standards
b	Field duplicate sample associated with MW-16.
<	Constituent was not detected above the laboratory reporting limit
°C	Degrees celsius.
J	Compound concentration is qualified as estimated.
R	ejected due to poor recovery of matrix spike
mg/L	Milligrams per liter.
mV	Millivolts.
NA	Not analyzed.
NE	Water quality criteria not established.
µg/L	Micrograms per liter.
µS/cm	Microsiemens per centimer.
Bold	Constituent was not detected above the laboratory reporting limit
	Value exceeds the NCAC 2L Standard.
[64]	Values in brackets are duplicate sample results

Table 2
Summary of Groundwater Analytical Results - September 2016
Former Ashland Facility, Greensboro, North Carolina

	Sample Location:	MW-22	MW-22BR	MW-27S	MW-27D	MW-29S	MW-29D	MW-30
	Lab Sample ID:	680-130081-13	680-130081-14	680-130081-15	680-130081-16	680-130081-17	680-130081-18	680-130081-19
	Date Sampled:	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016	9/20/2016
Field Parameters	2L Groundwater Standard[a]							
Temperature (°C)	NE	20.4	22.5	22.4	22.6	27.1	24.3	25.6
pH (standard units)	6.5 - 8.5	**6.0**	**10.9**	**6.0**	6.8	**5.7**	**5.7**	**5.7**
Dissolved Oxygen (mg/L)	NE	0.0	0.0	2.5	0.1	0.0	0.0	0.0
Specific Conductance (µS/cm)	NE	189	1083	108	142	1030	166	362
Oxidation-Reduction Potential (mV)	NE	-15	-34	191	79	-1.8	185	130
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<100	**28**	<100	<200	<10	<50	<25
Benzene	1	<10	<20	<10	<20	<1.0	<5.0	<1.0
Carbon tetrachloride	0.3	<10	<20	<10	<20	<1.0	<5.0	<1.0
Chloroform	70	<10	<20	<10	<20	<1.0	<5.0	<1.0
1,2-Dichlorobenzene	20	<10	<20	<10	<20	<1.0	<5.0	<1.0
1,4-Dichlorobenzene	6	<10	<20	<10	<20	<1.0	<5.0	<1.0
1,1-Dichloroethane	6	**13**	**9.4**	<10	<20	**1.8**	**8.0**	<1.0
1,2-Dichloroethane	0.4	<10	<20	<10	<20	<1.0	<5.0	<1.0
1,1-Dichloroethene	350	**200**	**130**	**76**	**130**	**8.1**	**39**	<1.0
cis-1,2-Dichloroethene	70	**490**	**57**	**71**	**250**	**17**	**81**	<1.0
1,2-Dichloropropane	0.6	<10	<20	<10	<20	<1.0	<5.0	<1.0
Ethylbenzene	600	<10	<20	<10	<20	<1.0	<5.0	<1.0
Methylene chloride	5	<50	<100	<50	<20	<5.0	<25	<5.0
Tetrachloroethene	0.7	**1,200**	**370**	**1,100**	**1,200**	**80**	**390**	**11**
Toluene	600	<10	<20	<10	<20	<1.0	<5.0	<1.0
1,1,1-Trichloroethane	200	<10	<20	<10	<20	<1.0	<5.0	<1.0
Trichloroethene	3	**560**	**260**	**540**	**860**	**32**	**160**	**5.3**
Vinyl chloride	0.03	<10	<20	<10	<20	<1.0	<5.0	<1.0
Xylenes, total	500	<10	<20	<10	<20	<1.0	<5.0	<2.0
SVOCs (USEPA Method 8270D) µg/L								
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA
1,3-Dichlorobenzene	200	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	NA
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA
Di-n-butyl phthalate	700	NA	NA	NA	NA	NA	NA	NA
2-Methylnaphthalene	30	NA	NA	NA	NA	NA	NA	NA
3&4 Methylphenol	40[c]	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA
Phenol	30	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	NA	NA	NA

Notes:

a	Title 15A North Carolina Administrative Code (NCAC) Subchapter 2L Groundwater Quality Standards
b	Field duplicate sample associated with MW-16.
<	Constituent was not detected above the laboratory reporting limit
°C	Degrees celsius.
J	Compound concentration is qualified as estimated.
R	rejected due to poor recovery of matrix spike
mg/L	Milligrams per liter.
mV	Millivolts.
NA	Not analyzed.
NE	Water quality criteria not established.
µg/L	Micrograms per liter.
µS/cm	Microsiemens per centimer.
Bold	Constituent was not detected above the laboratory reporting limit
	Value exceeds the NCAC 2L Standard.
[64]	Values in brackets are duplicate sample results

Table 3
Summary of Surface Water Analytical Results - March and September 2016
Former Ashland Facility, Greensboro, North Carolina

Sample Location:	HBG - Adult Wader[a]	HBG - Child Wader[b]	HBG - Fish Ingestion[c]	**SW-3**		**SW-4**		**SW-5**		**SW-6**	
Lab Sample ID:				680-122921-1	0680-130081-25	680-122921-2	0680-130081-26	680-122921-3	0680-130081-27	680-122921-4	0680-130081-28
Date Sampled:				3/10/2016	9/29/2016	3/10/2016	9/29/2016	3/10/2016	9/29/2016	3/10/2016	9/29/2016
VOCs (USEPA Method 8260B) µg/L											
Acetone	-	-	10,900,000	<10	<10	<10	<10	<10	<10	<10	<10 [<10]
Benzene	-	-	19,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]
Chloroform	-	-	-	<1.0	**1.0**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]
1,2-Dichlorobenzene	-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]
1,1-Dichloroethane	-	-	112,000	<1.0	<1.0	<1.0	<1.0	**1**	<1.0	**1.8**	<1.0 [<1.0]
1,1-Dichloroethene	-	-	148,000	**6.1**	**2.5**	**7.7**	**2.5**	**10**	**7.1**	**43**	**11 [10]**
cis-1,2-Dichloroethene	-	-	6,900	**3.9**	**2.4**	**3.6**	**2.6**	**6.9**	**7.9**	**11**	**5.5 [5.5]**
Tetrachloroethene	19	140	160	**11**	**10**	**11**	**12**	**60**	**92**	**55**	**37 [34]**
Toluene	-	-	369,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]
1,1,1-Trichloroethane	-	-	15,370,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**5.9**	**2.3 [2.2]**
1,1,2-Trichloroethane			-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]
Trichloroethene	2,100	12,000	12,000	**6.7**	**4.4**	**6.6**	**4.9**	**24**	**33**	**31**	**15 [15]**
Vinyl chloride	-	-	1,140	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	**1.4**	<1.0 [<1.0]
Xylenes (Total)			545,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0 [<1.0]

Notes:

a	Health-based goal for an adult wader scenario assuming an exposure frequency of 12 days per year and an exposure duration of 30 years (Arcadis 2010).
b	Health-based goal for an child wader scenario assuming an exposure frequency of 12 days per year and an exposure duration of 6 years (Arcadis 2010).
c	Health-based goal for fish ingestion assuming an average consumption of 0.63 grams per day and an exposure duration of 30 years (Arcadis 2010).
-	Risk-based goal not assessed.
HBG	Health-Based Goal
µg/L	Micrograms per liter.
USEPA	United States Environmental Protection Agency.
Bold	Indicates constituents was detected at a concentration greater than the laboratory reporting limit.
[34]	Value inside brackets indicates duplicate sample value
	Value exceeds the HGB-Adult Wader goal.

Reference

Arcadis. 2010. Surface Water and Near-Stream Groundwater Sampling Report, Former Ashland Distribution Company Facility, 2802 Patterson Street, Greensboro, North Carolina. July 19, 2010.

Table 4
Historical Surface Water Analytical Results at Primary Sample Locations
Former Ashland Facility, Greensboro, North Carolina

	Target Constituent:	Acetone	Benzene	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	Vinyl Chloride	Toluene	Xylenes (total)
HBG-Adult Wader [a] (µg/L)		NA	NA	NA	NA	NA	19	NA	2100	NA	NA	NA
HBG-Child Wader [b] (µg/L)		NA	NA	NA	NA	NA	140	NA	12,000	NA	NA	NA
HBG-Fish Ingestion[c] (µg/L)		10,900,000	19,000	112,000	148,000	6,900	160	15,370,000	12,000	1,140	369,000	545,000
Sample ID	**Date**	**Concentration (µg/L)**										
SW-3	7/22/2009	<25	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10
SW-3	6/15/2010	<25	<1.0	<1.0	1.8	<1.0	1.4	<1.0	1.0	<1.0	<1.0	<2.0
SW-3	12/17/2010	57	<1.0	2.0	19	11	59	<1.0	20	<1.0	<1.0	<2.0
SW-3	6/20/2011	<25	<1.0	<1.0	11	7.7	110	<1.0	34	<1.0	<1.0	<2.0
SW-3	12/12/2011	<25	<1.0	<1.0	2.1	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<2.0
SW-3	3/22/2012	<25	<1.0	<1.0	3.1	<1.0	1.7	<1.0	1.4	<1.0	<1.0	<2.0
SW-3	4/30/2012	<25	<1.0	<1.0	1.8	<1.0	1.1	<1.0	1.0	<1.0	<1.0	<2.0
SW-3	10/31/2012	<25	<1.0	<1.0	2.6	<1.0	1.2	<1.0	1.1	<1.0	<1.0	<2.0
SW-3	12/12/2012	<25	<1.0	<1.0	8.0	<1.0	3.4	<1.0	2.2	<1.0	<1.0	<2.0
SW-3	3/7/2013	<25	<1.0	<1.0	6.7	<1.0	3.0	<1.0	2.7	<1.0	<1.0	<2.0
SW-3	6/24/2013	<25	<1.0	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
SW-3	9/19/2013	<25	<1.0	<1.0	4.3	<1.0	2.8	<1.0	1.9	<1.0	1.3	<2.0
SW-3	12/8/2013	26	<1.0	<1.0	3.1	<1.0	1.6	<1.0	1.2	<1.0	<1.0	<2.0
SW-3	3/20/2014	<25	<1.0	<1.0	8.7	<1.0	4	<1.0	3.2	<1.0	<1.0	<2.0
SW-3	6/18/2014	<25	<1.0	<1.0	3.3	<1.0	1.9	<1.0	1.1	<1.0	2.1	<2.0
SW-3	9/12/2014	<25	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0
SW-3	12/18/2014	<10	<1.0	<1.0	2.5	<1.0	1.6	<1.0	1.1	<1.0	<1.0	<2.0
SW-3	9/8/2015	<10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
SW-3	12/10/2015	<10	<1.0	<1.0	2.9	2.2	9.2	<1.0	4.2	<1.0	<1.0	<1.0
SW-4	7/22/2009	<25	<1.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<2.0
SW-4	12/7/2009	<25	<1.0	<1.0	2.0	1.4	8.2	<1.0	3.4	<1.0	<1.0	<2.0
SW-4	12/22/2009	<25	<1.0	<1.0	3.0	<1.0	4.1	<1.0	2.4	<1.0	<1.0	<2.0
SW-4	3/25/2010	930 J	<1.0	<1.0	7.0	7.4	7.9	<1.0	4.2	<1.0	<1.0	2.4
SW-4	6/15/2010	<25	<1.0	<1.0	2.0	1.6	4.3	<1.0	1.9	<1.0	<1.0	<2.0
SW-4	12/17/2010	56	<1.0	1.5	16	10	52	<1.0	19	<1.0	<1.0	<2.0
SW-4	6/20/2011	<25	<1.0	<1.0	10	6.9	110	<1.0	32	<1.0	<1.0	<2.0
SW-4	12/12/2011	<25	<1.0	<1.0	2.9	2.5	10	<1.0	5.1	<1.0	<1.0	<2.0
SW-4	3/22/2012	<25	<1.0	<1.0	3.4	2.6	9.5	<1.0	4.6	<1.0	<1.0	<2.0
SW-4	4/30/2012	<25	<1.0	<1.0	2.8	2.7	10	<1.0	4.6	<1.0	<1.0	<2.0
SW-4	10/31/2012	<25	<1.0	<1.0	3.1	2.9	10	<1.0	4.2	<1.0	<1.0	<2.0
SW-4	12/12/2012	<25	<1.0	<1.0	5.7	3.2	12	<1.0	4.9	<1.0	<1.0	<2.0
SW-4	3/7/2013	<25	<1.0	<1.0	6.5	2.8	12	<1.0	4.3	<1.0	<1.0	<2.0
SW-4	6/24/2013	<25	<1.0	<1.0	2.4	3.3	7.9	<1.0	3.3	<1.0	<1.0	<2.0
SW-4	9/19/2013	<25	<1.0	<1.0	6.9	2.7	11	<1.0	5.7	<1.0	1.5	<2.0
SW-4	12/8/2013	<25	<1.0	<1.0	3.4	3.3	6.8	<1.0	3.8	<1.0	<1.0	<2.0
SW-4	3/20/2014	<25	<1.0	<1.0	5.8	1.7	7.6	<1.0	4.2	<1.0	<1.0	<2.0
SW-4	6/18/2014	<25	<1.0	<1.0	4.1	3.4	10	<1.0	4.5	<1.0	3.7	<2.0
SW-4	9/12/2014	<25	<1.0	<1.0	2.6	2.2	8.8	<1.0	3.9	<1.0	<1.0	<2.0
SW-4	12/18/2014	<10	<1.0	<1.0	3.6	2.6	12	<1.0	4.7	<1.0	<1.0	<2.0
SW-4	9/8/2015	<10	<1.0	<1.0	1.9	3.1	9.4	<1.0	3.8	<1.0	<1.0	<1.0
SW-4	12/10/2015	<10	<1.0	<1.0	2.5	1.9	8.2	<1.0	3.7	<1.0	<1.0	<1.0
SW-5	7/22/2009	<25	<1.0	<5.0	<5.0	<5.0	29	<5.0	9.8	<5.0	<5.0	<10
SW-5	8/13/2009	<25	<1.0	<5.0	<5.0	<5.0	45	<5.0	15	<5.0	<5.0	<10
SW-5	3/25/2010	130	<1.0	1.6	13	17	37	<1.0	17	<1.0	<1.0	<2.0
SW-5	6/15/2010	88	<1.0	<1.0	6.9	6.2	44	<1.0	15	<1.0	<1.0	2.0
SW-5	12/17/2010	62	<1.0	1.1	14	9.3	57	<1.0	23	<1.0	<1.0	<2.0
SW-5	6/20/2011	<25	<1.0	<1.0	9.7	7.3	110	<1.0	32	<1.0	<1.0	<2.0
SW-5	12/12/2011	<25	<1.0	1.2	10	6.5	71	<1.0	27	<1.0	<1.0	<2.0
SW-5	3/22/2012	<25	<1.0	<1.0	7.1	5.6	46	<1.0	18	<1.0	<1.0	<2.0
SW-5	4/30/2012	<25	<1.0	<1.0	6.9	6.3	53	<1.0	20	<1.0	<1.0	<2.0
SW-5	10/31/2012	<25	<1.0	<1.0	9.8	7.1	85	<1.0	32	<1.0	<1.0	<2.0
SW-5	12/12/2012	<25	<1.0	1.0	11	13	85	<1.0	30	<1.0	<1.0	<2.0
SW-5	3/7/2013	<25	<1.0	1.2	11	9.0	58	<1.0	22	<1.0	<1.0	<2.0
SW-5	6/24/2013	<25	<1.0	<1.0	6.9	10	49	<1.0	19	1.3	<1.0	<2.0
SW-5	9/19/2013	<25	<1.0	<1.0	9.7	7.0	71	<1.0	33	<1.0	1.3	<2.0
SW-5	12/8/2013	27	<1.0	<1.0	9.1	13	69	<1.0	26	<1.0	<1.0	<2.0
SW-5	3/20/2014	<25	<1.0	1.1	9.9	6	47	<1.0	19	<1.0	<1.0	<2.0
SW-5	6/18/2014	<25	<1.0	1.1	11	12	81	<1.0	29	1.1	5.1	<2.0
SW-5	9/12/2014	<25	<1.0	<1.0	7.5	5.7	67	<1.0	27	<1.0	<1.0	<2.0
SW-5	12/18/2014	<10	<1.0	<1.0	10	8.6	86	<1.0	31	1.1	<1.0	<2.0
SW-5	9/8/2015	<10	<1.0	<1.0	4.2	5.8	52	<1.0	19	<1.0	<1.0	<1.0
SW-5	12/10/2015	<10	<1.0	1.1	7.9	7.6	60	<1.0	23	1.1	<1.0	<1.0

See footnotes on the last page.

Table 4
Historical Surface Water Analytical Results at Primary Sample Locations
Former Ashland Facility, Greensboro, North Carolina

	Target Constituent:	Acetone	Benzene	1,1-DCA	1,1-DCE	cis-1,2-DCE	PCE	1,1,1-TCA	TCE	Vinyl Chloride	Toluene	Xylenes (total)
HBG-Adult Wader [a] (µg/L)		NA	NA	NA	NA	NA	19	NA	2100	NA	NA	NA
HBG-Child Wader [b] (µg/L)		NA	NA	NA	NA	NA	140	NA	12,000	NA	NA	NA
HBG-Fish Ingestion[c] (µg/L)		10,900,000	19,000	112,000	148,000	6,900	160	15,370,000	12,000	1,140	369,000	545,000
Sample ID	**Date**	**Concentration (µg/L)**										
SW-6	8/13/2009	<25	<1.0	<5.0	7.1	<5.0	24	<5.0	9.7	<1.0	<5.0	<10
SW-6	6/15/2010	<25	<1.0	2.2	47	10	53	7.9	29	1.6	<1.0	<2.0
SW-6	12/17/2010	79	<1.0	2.0	19	10	51	<1.0	20	1.0	<1.0	<2.0
SW-6	6/20/2011	<25	<1.0	<1.0	8.5	6.2	100	<1.0	31	<1.0	<1.0	<2.0
SW-6	12/12/2011	<25	<1.0	1.5	9.9	4.1	37	4.6	24	<1.0	<1.0	<2.0
SW-6	4/30/2012	<25	<1.0	2.8	47	10	56	11	35	1.3	<1.0	<2.0
SW-6	10/31/2012	<25	<1.0	1.4	21	4.4	50	3.5	23	<1.0	<1.0	<2.0
SW-6	12/12/2012	<25	<1.0	1.9	30	10	57	5.4	30	<1.0	<1.0	<2.0
SW-6	6/24/2013	<25	<1.0	2.4	43	12	47	8.4	28	1.5	<1.0	<2.0
SW-6	9/19/2013	<25	<1.0	<1.0	16	4.7	33	3.3	21	<1.0	1.3	<2.0
SW-6	12/8/2013	<25	<1.0	2.6	46	11	77	9.9	41	<1.0	<1.0	<2.0
SW-6	3/20/2014	<25	1.0	2.7	38	8.6	59	9.3	36	<1.0	<1.0	<2.0
SW-6	6/18/2014	<25	<1.0	3.1	48	17	70	9.5	38	2.0	3.7	<2.0
SW-6	9/12/2014	<25	<1.0	1.1	20	7.2	30	3.3	17	<1.0	<1.0	<2.0
SW-6	12/18/2014	<10	<1.0	2.0	34	9.4	65	6.4	35	1.1	<1.0	<2.0
SW-6	9/8/2015	<10	<1.0	<1.0	2.9	3.2	17	<1.0	6.5	<1.0	<1.0	<1.0
SW-6	12/10/2015	<10	<1.0	1.1	18	6.1	42	3.4	21	<1.0	<1.0	<1.0
SW-7	8/13/2009	<25	<1.0	<5.0	<5.0	<5.0	8.9	<1.0	<5.0	<1.0	<5.0	<10
SW-7	6/15/2010	<25	<1.0	1.2	14	4.9	22	3.9	13	<1.0	<1.0	<2.0
SW-7	12/17/2010	70	<1.0	1.2	14	9.0	52	<1.0	20	<1.0	<1.0	<2.0
SW-SWAN-1	1/6/2011	<25	2.7	1.2	27	4.5	30	3.5	26	<1.0	5.0	3.7
SW-SWAN-1	12/12/2011	<25	<1.0	<1.0	9.9	3.3	15	2.5	15	<1.0	<1.0	<2.0
SW-SWAN-1	3/22/2012	<25	<1.0	<1.0	17	7.5	27	3.9	26	<1.0	<1.0	<2.0
SW-SWAN-1	4/30/2012	<25	<1.0	<1.0	14	5.3	18	3.6	15	<1.0	<1.0	<2.0
SW-SWAN-1	10/31/2012	<25	<1.0	<1.0	9.5	4.0	15	1.8	14	<1.0	<1.0	<2.0
SW-SWAN-1	12/12/2012	<25	<1.0	<1.0	7.0	3.7	14	1.2	11	<1.0	<1.0	<2.0
SW-SWAN-1	3/7/2013	<25	<1.0	<1.0	18	5.9	25	2.9	22	<1.0	1.1	<2.0
SW-SWAN-1	6/24/2013	<25	<1.0	<1.0	14	3.7	16	2.8	12	<1.0	<1.0	<2.0
SW-SWAN-1	9/19/2013	<25	<1.0	<1.0	10	2.6	15	3.0	12	<1.0	<1.0	<2.0
SW-SWAN-1	12/8/2013	<25	<1.0	<1.0	14	6.4	24	2.8	21	<1.0	<1.0	<2.0
SW-SWAN-1	3/20/2014	<25	2.0	<1.0	17	4.8	28	<1.0	25	<1.0	3.4	4.0
SW-SWAN-1	6/18/2014	<25	<1.0	<1.0	13	3.2	19	3.5	13	<1.0	<1.0	<2.0
SW-SWAN-1	9/12/2014	<25	<1.0	<1.0	8.3	2.9	8.6	1.5	7.7	<1.0	<1.0	<2.0
SW-SWAN-1	12/18/2014	<10	<1.0	<1.0	12	7.3	20	2.1	17	<1.0	<1.0	<2.0
SW-SWAN-1	9/8/2015	<10	<1.0	<1.0	4.3	2.6	7.3	<1.0	5.9	<1.0	<1.0	<1.0
SW-SWAN-1	12/10/2015	<10	<1.0	<1.0	13	8.3	19	2.4	17	<1.0	<1.0	<1.0

Notes:

a Health-based goal for an adult wader scenario assuming an exposure frequency of 12 days per year and exposure duration of 30 years (Arcadis 2010).

b Health-based goal for child wader scenario assuming an exposure frequency of 12 days per year and an exposure duration of 6 years (Arcadis 2010).

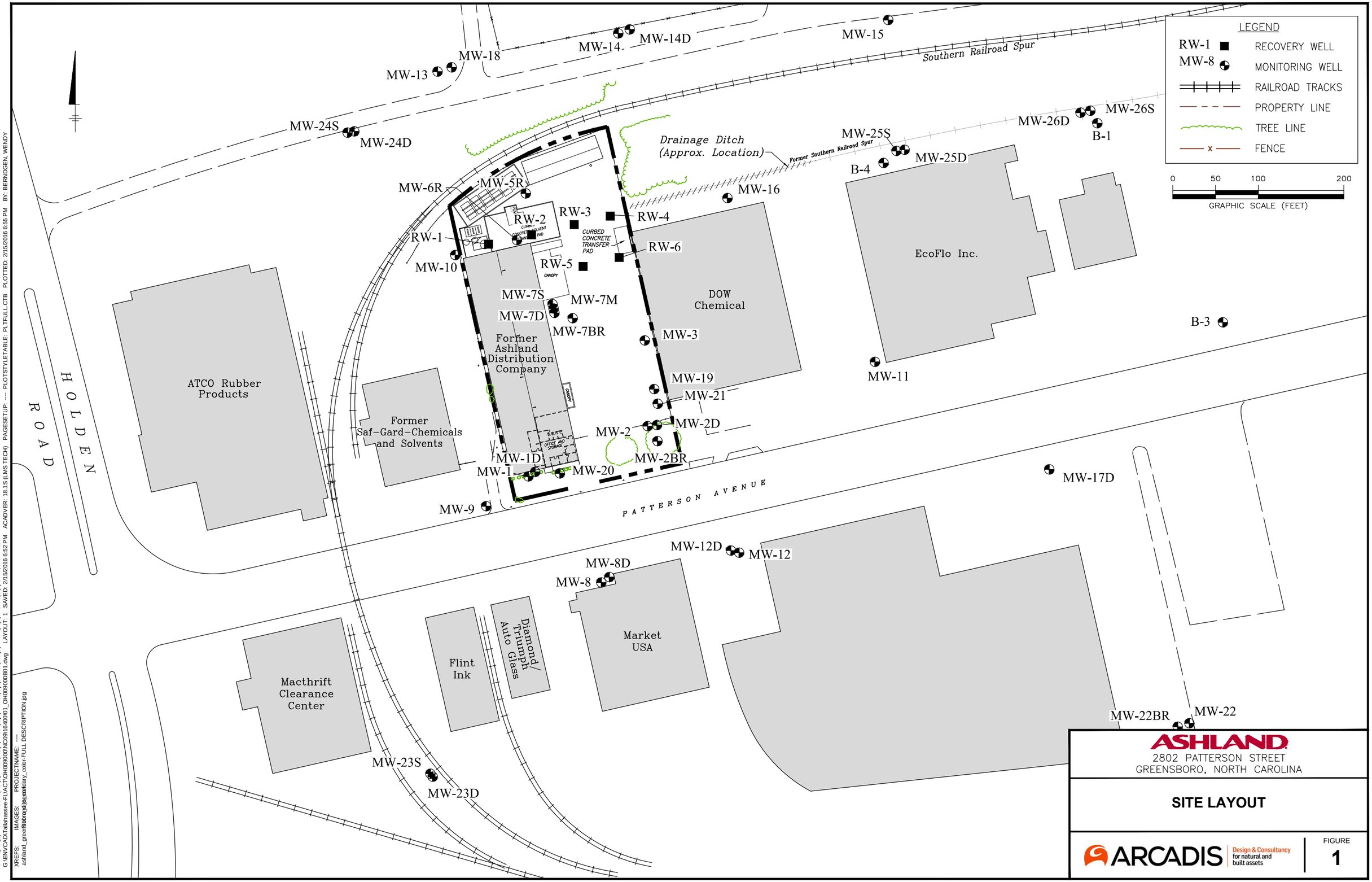
c Health-based goal for fish ingestion assuming an average daily consumption of 0.63 grams per day and an exposure duration of 30 years (Arcadis 2010).

1,1-DCA 1,1-Dichloroethane.
1,1-DCE 1,1-Dichloroethene.
cis-1,2-DCE cis-1,2-Dichloroethene.
HBG Health-based goal.
J Constituent concentration is qualified as estimated.
NA Risk-based goal not assessed.
PCE Tetrachloroethene.
TCE Trichloroethene.
µg/L Micrograms per liter.
Value exceeds the HBG-Adult Wader goal.

Reference

Arcadis. 2010. Surface Water and Near-Stream Groundwater Sampling Report, Former Ashland Distribution Facility, Greensboro, North Carolina. July 19, 2010.

Figures



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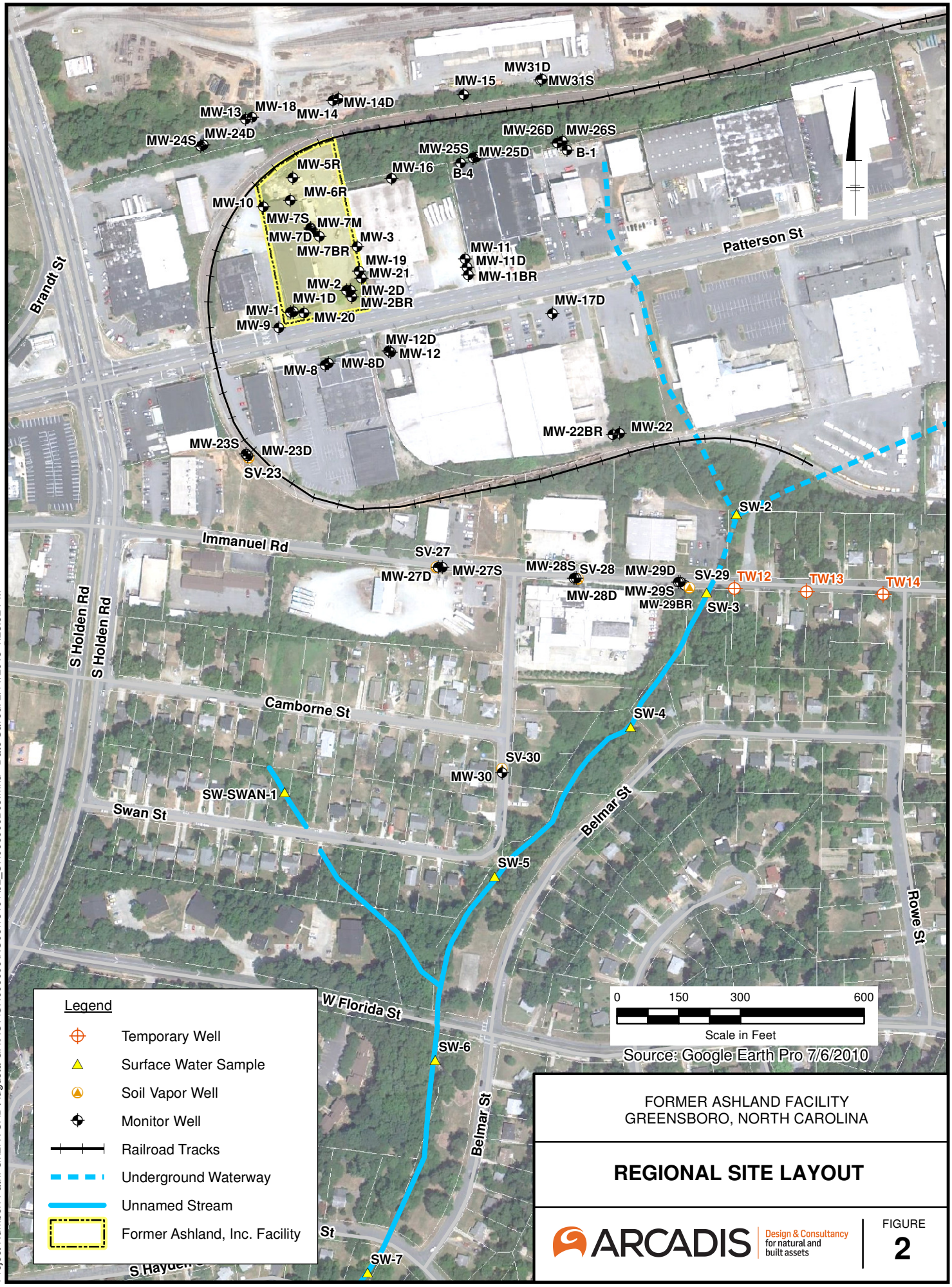
XREFS: IMAGES: PROJECTNAME: ----
ashland_greensboro_site_exhibit_secondary_color-FULL DESCRIPTION.jpg



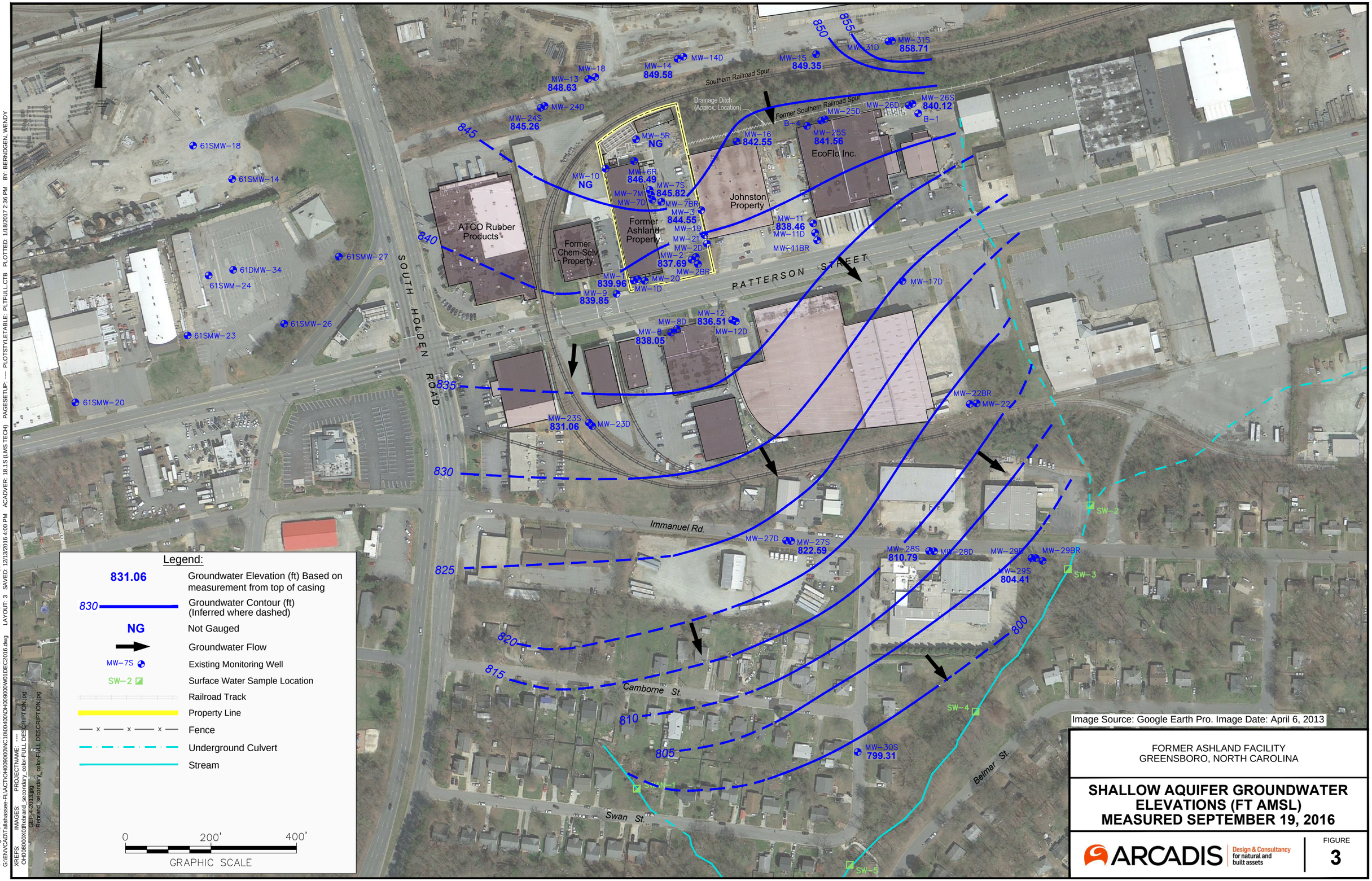
FORMER ASHLAND FACILITY
GREENSBORO, NORTH CAROLINA

REGIONAL SITE LAYOUT

ARCADIS Design & Consultancy for natural and built assets

FIGURE
2

CITY: AUGUSTA DIV/GROUP: ENV DB: A. Saul LD: A. Saul PIC: PM: TM: TR:
Project Number: Path: G:\ENVCAD\Augusta-GA\ACT\OH006000\NC06\13401\02_OH006000B03.mxd Date Saved: 2/11/2013 4:23:52 PM



FORMER ASHLAND FACILITY
GREENSBORO, NORTH CAROLINA

SHALLOW AQUIFER GROUNDWATER ELEVATIONS (FT AMSL) MEASURED SEPTEMBER 19, 2016

ARCADIS Design & Consultancy for natural and built assets

FIGURE 3

CITY: Augusta, GA DIV/GROUP: ENVCAD DB: A. Saul LD: A. Saul PIC: PM: TM: LYR ON=*;OFF=*REF*
G:\ENVCAD\Tallahassee-FL\ACT\OH009000\NC10\00400\OH009000W01DEC2016.dwg LAYOUT: 3 SAVED: 12/13/2016 4:00 PM ACADVER: 18.1S (LMS TECH) PAGESETUP: ---- PLOTSTYLETABLE: PLTFULL.CTB PLOTTED: 1/18/2017 2:36 PM BY: BERNDGEN, WENDY
XREFS: OH008000X01 IMAGES: Rebrand_secondary_color-FULL DESCRIPTION.jpg GEP-4-2013.jpg PROJECTNAME: ---- Rebrand_secondary_color-FULL DESCRIPTION.jpg

Attachment 1

Field Sampling Logs

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND - GREENSBORO	SITE LOCATION: GREENSBORO, NC
WELL ID: MW-3	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.51	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 25 feet) + 0.2 liters = 0.46 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1034	0.0	0.0	0.2	13.20	4.61	22.86	711	4.50	8.0	187
1037	0.6	0.6	↓	13.20	4.38	22.97	712	3.02	6.3	208
1040	0.6	1.2	↓	13.18	4.35	22.98	712	1.58	6.2	212
1043	0.6	1.8	↓	13.15	4.34	22.96	715	1.31	5.8	212
1046	0.6	2.4	↓	13.15	4.33	22.97	716	1.31	5.8	212
1049	0.6	3.0	↓	13.15	4.31	22.98	716	1.28	5.3	211

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURE(S):	SAMPLING TIME:
M. ECKMAIR / ANTEA GROUP	[signature]	1050

FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: ____ FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

No BLADDER PUMP → WOM
CONNECTOR ~~CABLE~~ TUBING

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND - GREENSBORO	SITE LOCATION: GREENSBORO, NC
WELL ID: MW-6R	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.47	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 20 feet) + 0.2 liters = 0.45 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µ S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1318	0.0	0.0	0.2	10.58	5.34	22.56	311	1.43	72.5	166
1321	0.6	0.6	↓	10.54	5.31	22.29	306	0.69	61.5	131
1324	0.6	1.2		10.54	5.32	22.27	303	0.64	39.7	111
1327	0.6	1.8		10.53	5.32	22.35	300	0.61	29.2	100
1330	0.6	2.4		10.53	5.32	22.37	298	0.59	25.0	93
1333	0.6	3.0		10.53	5.30	22.36	295	0.57	18.1	86
1336	0.6	3.6		10.53	5.29	22.36	293	0.55	12.2	84
1339	0.6	4.2		10.53	5.27	22.35	291	0.54	9.1	82

TUBING INSIDE DIA. CAPACITY (Liters/FL): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M. ECKMAIR / ANTEA GROUP	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1340
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40 mL	HCl	8260
2	1 L	—	8270

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-7BR	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.0	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.58	PURGE PUMP TYPE ~~OR BAILER~~: ~~Peristaltic~~ / Stainless Submersible

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 95 feet) + 0.2 liters = 2.46 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
14:59	0.0	0.0	0.2	10.58	7.07	20.07	1610	0.0	21.2	-142.1
15:02	0.6	0.6	0.2	11.25	7.15	21.41	1655	0.0	14.8	-157.2
15:05	0.6	1.2	0.2	11.77	7.15	19.93	1668	0.0	17.6	-158.5
15:08	0.6	1.8	0.2	11.94	7.16	19.82	1659	0.0	21.0	-162.0
15:11	0.6	2.4	0.2	12.20	7.08	20.18	1656	0.0	24.3	-165.7
15:14	0.6	3.0	0.2	12.12	7.04	20.43	1641	0.0	36.0	-166.7

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
B. BIGGERS / ANTEA GROUP	Brian Biggers	1520

FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type:	FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

Note: Strong odor, possibly chlorinated

Brian Biggers

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND-GREENSBORO	SITE LOCATION: GREENSBORO, NC
WELL ID: MW-7D	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.78	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 62.00 feet) + 0.2 liters = 0.54 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1112	0.0	0.0	0.2	11.15	5.56	23.57	123	1.86	5.8	161
1115	0.6	0.6	↓	11.00	5.49	23.65	114	1.31	4.1	157
1118	0.6	1.2	↓	10.95	5.44	23.53	109	0.93	8.5	155
1121	0.6	1.8	↓	10.93	5.42	23.54	107	0.87	8.0	151
1124	0.6	2.2	↓	10.90	5.35	23.56	106	0.93	8.1	149

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
MECKMAIR / ANTEA GROUP	[signature]	1125
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	20mL	HCl	8260
2	1L	—	8270

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

NO BLADDER PUMP – WQM CONNECTOR TUBING

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND-GREENSBORO	SITE LOCATION: GREENSBORO, NC
WELL ID: MW-7M	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.74	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 50 feet) + 0.2 liters = 0.52 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µ S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1146	0.0	0.0	0.2	11.45	6.39	22.66	247	1.84	38.2	142
1149	0.6	0.6	↓	11.31	6.41	22.58	266	0.97	22.9	126
1152	0.6	1.2		11.27	6.42	22.71	269	0.79	16.3	118
1155	0.6	1.8		11.36	6.41	23.00	275	0.81	13.1	112
1158	0.6	2.2		11.	6.41	23.05	271	0.80	9.3	108

TUBING INSIDE DIA. CAPACITY (Liters/FT.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
MECKMAIR / ANTEA GROUP	[signature]	1200
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND-GREENSBORO,	SITE LOCATION: GREENSBORO, NC
WELL ID: MW-7S	DATE: 9/20/14

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 10.10	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 22 feet) + 0.2 liters = 0.45 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µ S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1212	0.0	0.0	0.2	10.07	5.27	23.67	233	3.11	4.8	171
1215	0.6	0.6	↓	9.99	4.96	23.38	234	2.19	4.3	184
1218	0.6	1.2	↓	9.99	4.92	22.97	235	4.88	5.9	189
1221	0.6	1.8	↓	10.00	4.92	22.93	237	4.88	3.3	190
1224	0.6	2.2	↓	10.00	4.92	22.95	238	4.53	0.9	191

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MECKMAIR / ANTEA GROUP	SAMPLER(S) SIGNATURE(S):	SAMPLING TIME: 1225
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCl	8260
2	1 L	—	8270

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND - GREENSBORO		SITE LOCATION: GREENSBORO, NC	
WELL ID: MW-11		DATE: 9/19/2016	

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 16.59	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 22 feet) + 0.2 liters = 0.45 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (✓ S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1719	0.45	0.45	0.45	16.77	4.15	22.28	402	3.30	73.0	3.23
1722	1.35	1.8	0.45	16.81	4.14	21.18	399	3.06	36.4	3.10
1725	1.35	3.15	0.45	16.85	4.09	20.40	401	2.74	21.8	568.3
1728	1.35	4.5	0.45	16.85	4.10	20.52	401	2.62	19.6	567.3
1731	1.35	5.85	0.45	16.85	4.09	20.70	399	2.66	8.9	566.2
1734	1.35	7.2	0.45	16.85	4.06	20.31	400	2.63	4.8	566.9

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.ECKMAIR / ANTEA GROUP	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1735
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	40mL	HCl	8260
2	1L	—	8270

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-12	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.87	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ Bladder

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 21 feet) + 0.2 liters = 0.45 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
09:06	0.2	0.2	0.2	13.87	5.47	21.34	65	4.12	471	231.8
09:09	0.6	0.8	0.2	13.87	5.37	22.38	57	4.02	422	253.9
09:12	0.6	1.4	0.2	13.88	5.33	22.72	54	4.28	289	264.4
09:15	0.6	2.0	0.2	13.88	5.30	22.81	49	4.41	275	270.5
09:18	0.6	2.6	0.2	13.88	5.30	22.82	55	4.35	274	267.5

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers/Antea Group	SAMPLER(S) SIGNATURES: B. Biggers	SAMPLING TIME: 09:20
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-12D	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 13.91	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ Bladder

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 58 feet) + 0.2 liters = 0.34 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
0834	0.20	0.20	0.2	14.22	6.46	23.49	182	5.57	648	188.0
0837	0.6	0.80	0.2	14.36	6.37	22.24	183	4.30	53.0	192.5
0840	0.6	1.40	0.2	14.39	6.36	21.99	182	3.98	41.0	196.0
0843	0.6	2.0	0.2	14.64	6.33	21.38	183	3.72	36.8	197.9

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers/Antea Group	SAMPLER(S) SIGNATURES: B. Biggers	SAMPLING TIME: 0845 DVP-1
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) ~~(N)~~

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
6	0.40 L	HCL	8260
4	1 L	None	8270

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND - GREENSBORO		SITE LOCATION: GREENSBORO, NC	
WELL ID: MW-16			DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 12.04	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 22 feet) + 0.2 liters = 0.45 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (___S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1252	0.0	0.0	0.2	11.30	4.87	23.85	111	2.97	0.5	213
1255	0.6	0.6	↓	11.29	4.96	23.20	114	3.04	0.0	228
1258	0.6	1.2	↓	11.29	4.55	22.90	114	2.22	0.0	234
1301	0.6	1.8	↓	11.32	4.58	22.94	114	2.21	0.0	235
1304	0.6	2.4	↓	11.32	4.54	22.95	114	2.26	0.0	243

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: MECKMANR / ANTEA GROUP	SAMPLER(S) SIGNATURE(S):	SAMPLING TIME: 1305
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: (Y) (N) DUP-2

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
6	40mL	HCl	8260

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-17D	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 16.31	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / Bladder ~~Stainless Submersible~~

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 59 feet) + 0.2 liters = 0.54 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
759	0.2	0.20	0.20	16.31	6.01	23.07	161	3.74	28.3	177.1
802	0.6	0.80	0.20	16.35	5.75	22.54	162	2.32	30.0	201.6
805	0.6	1.40	0.20	16.37	5.70	22.33	161	1.77	20.9	211.7
807	0.6	2.00	0.20	16.37	5.69	22.27	161	1.44	17.6	217.0
810	0.6	2.60	0.2	16.37	5.68	22.38	160	1.28	9.3	223.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers / Antea Group	SAMPLER(S) SIGNATURES: B. Biggers	SAMPLING TIME: 815
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

SAMPLE CONTAINER SPECIFICATION		SAMPLE PRESERVATION	INTENDED ANALYSIS AND/OR METHOD
# CONTAINERS	VOLUME	PRESERVATIVE USED	
3	0.40 L	HCL	8260

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: ASHLAND- GREENSBORO		SITE LOCATION: GREENSBORO, NC	
WELL ID: MW-19		DATE: 9/20/16	

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 16.83	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 100 feet) + 0.2 liters = 0.64 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1002	0.0	0.0	0.2	16.83	6.34	23.23	210	1.05	0.0	62
1005	0.6	0.6	↓	16.83	6.25	22.94	211	0.72	0.0	64
1008	0.6	1.2	↓	16.83	6.20	22.84	213	0.71	0.0	62
1011	0.6	1.8	↓	16.80	6.17	22.79	215	0.75	0.0	59
1014	0.6	2.4	↓	16.80	6.17	22.78	217	0.74	0.0	57

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: M.ECKMAIR / ANTEA GROUP	SAMPLER(S) SIGNATURES:	SAMPLING TIME: 1015
FIELD DECONTAMINATION: Y (N)	FIELD FILTERED: Y N FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

NO BLADDER PUMP -> WOM CONNECTOR TUBING

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-22	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 26.99	PURGE PUMP TYPE OR BAILER: Peristaltic / Stainless Submersible Bladder

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 85 feet) + 0.2 liters = 0.604 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
727	0.60	0.60	0.60	27.12	5.89	21.00	203	0.0	108	-23.1
730	1.80	2.40	0.60	27.18	5.87	20.4	198	0.0	79.9	-26.0
733	1.80	4.20	↓	27.22	5.9	20.32	196	0.0	75.1	-25.2
736	1.80	6.00	↓	27.22	5.95	20.34	193	0.0	63.8	-21.6
739	1.80	7.80	↓	27.22	5.99	20.42	189	0.0	58.8	-14.7

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. BIGGERS / Antea Group	SAMPLER(S) SIGNATURES: B. Biggs	SAMPLING TIME: 7:40
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME:	ASHLAND - GREENSBORO	SITE LOCATION:	GREENSBORO, NC
WELL ID:	MW-22BR	DATE:	9/20/2016

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 30.28	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / ~~Stainless Submersible~~ BLADDER

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0024 liters/foot X 140 feet) + 0.2 liters = 0.75 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
0655	0.75	0.75	0.75	30.28	6.80	22.47	965	1.91	0.0	224.0
0658	2.25	3.00		32.22	9.84	21.30	979	0.00	0.6	71.1
0701	2.25	5.25		32.22	10.59	21.18	1028	0.00	2.7	26.8
0704	2.25	7.50		32.22	10.89	21.75	1025	0.00	1.6	-12.3
0707	2.25	9.75		32.22	10.89	21.94	1042	0.00	5.2	-20.6
0710	2.25	12.00		32.22	10.89	22.19	1055	0.00	4.2	-26.2
0713	2.25	14.25		32.22	10.90	22.35	1071	0.00	2.1	-30.8
0716	2.25	16.50		32.22	10.93	22.52	1083	0.00	4.7	-34.1

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
MECKMAIR / ANTEA GROUP	[signature]	0718

FIELD DECONTAMINATION: Y (N) | FIELD FILTERED: Y (N) Filtration Equipment Type: | FILTER SIZE: ____ µm | DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

NO BLADDER PUMP -> ~~FLOW CELL~~ WQM CONNECTOR TUBING

VOL. PURGED:

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-27D	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.0	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 11.3	PURGE PUMP TYPE OR BAILER: Peristaltic / Stainless Submersible Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 93 feet) + 0.2 liters = 2.42 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
11:16	0.0	0.0	0.2	11.3	6.83	22.46	140	2.03	1000+	67.7
11:19	0.6	0.6	0.2	11.35	6.74	21.89	142	0	1000+	68.8
11:22	0.6	1.2	0.2	11.48	6.79	21.95	141	0	1000+	71.5
11:24	0.6	1.8	0.2	11.55	6.78	21.99	141	0	1000+	73.5
11:27	0.6	2.4	0.2	11.61	6.75	22.60	142	0.11	1000+	78.9

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers / Antea Group	SAMPLER(S) SIGNATURES: B. Bigger	SAMPLING TIME: 11:30
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

Note: Readings and samples taken at ~~[illegible]~~ 64 ft
- Hit bottom at ~ 66 ft
- Original Depth to bottom ~ 98 ft

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-27S	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.0	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet):	PURGE PUMP TYPE OR BAILER: ~~Peristaltic~~ / Stainless Submersible Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 20 feet) + 0.2 liters = 1.088 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µ S/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1025	0.0	0.0	0.2	10.71	6.10	23.57	104	3.55	280	197.1
10:28	0.6	0.6	0.2	10.75	6.14	23.05	104	3.03	232	198.3
10:31	0.6	1.2	0.2	10.78	6.11	22.97	104	2.86	168	198.1
10:34	0.6	1.8	0.2	10.79	6.01	22.66	107	2.51	160	194.0
10:37	0.6	2.4	0.2	10.79	5.95	22.43	108	2.45	159	191.4

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
B. Biggers / Antea Group	B. Biggers	10:40
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW-29D	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 5.97	PURGE PUMP TYPE OR BAILER: Peristaltic / Stainless Submersible Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 20 feet) + 0.2 liters = 0.83 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
13:19	0.0	0.0	0.2	5.99	5.89	23.79	168	0.0	689	178.8
13:22	0.6	0.6	↓	5.99	5.79	24.35	166	0.0	699	193
13:25	0.6	1.2		6.99	5.74	24.31	164	0.0	1000+	193.6
13:28	0.6	1.8		7.87	5.72	24.28	166	0.0	1000+	185.2

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION:	SAMPLER(S) SIGNATURES:	SAMPLING TIME:
B. Biggers / Antea Group	B. Biggers	13:30

FIELD DECONTAMINATION: Y (N)
FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm
Filtration Equipment Type: ____
DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro	SITE LOCATION: Greensboro, NC
WELL ID: MW - 29 S	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 6.56	PURGE PUMP TYPE OR BAILER: Peristaltic / Stainless Submersible Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 6 feet) + 0.2 liters = 0.53 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
12:42	0.0	0.0	0.2	6.56	5.7	26.68	1193	1.52	178	13.6
12:45	0.6	0.6	0.2	6.89	5.67	26.99	1113	0	104	29.2
12:48	0.6	1.2	0.2	7.05	5.73	27.14	1030	0	49.6	-1.8
~~12:51~~	~~0.6~~	~~1.8~~	~~0.2~~	Dry well at 12:51						

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers / Antea Group	SAMPLER(S) SIGNATURES: B. Biggers	SAMPLING TIME: 13:00
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) FILTER SIZE: ____ µm Filtration Equipment Type:	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

GROUNDWATER SAMPLING LOG

SITE NAME: Ashland - Greensboro.	SITE LOCATION: Greensboro, NC
WELL ID: MW-30	DATE: 9/20/16

PURGING DATA

WELL DIAMETER (inches): 2.00	WELL SCREEN INTERVAL DEPTH: feet to feet	STATIC DEPTH TO WATER (feet): 8.08	PURGE PUMP TYPE OR BAILER: Peristaltic / Stainless Submersible Monsoon

EQUIPMENT VOLUME PURGE: 1 EQUIPMENT VOL. = PUMP VOLUME + (TUBING CAPACITY X TUBING LENGTH) + FLOW CELL VOLUME
(only fill out if applicable)
= 0.2 liters + (0.0217 liters/foot X 15 feet) + 0.2 liters = 0.73 liters

TIME	VOLUME PURGED (liters)	CUMUL. VOLUME PURGED (liters)	PURGE RATE (L/min)	DEPTH TO WATER (feet)	pH (standard units)	TEMP. (°C)	COND. (µS/cm)	DISS. OXYGEN (mg/L)	TURBIDITY (NTUs)	OXYGEN REDUCTION POTENTIAL (mV)
1404	0.0	0.0	0.2	8.08	5.81	25.15	350	0.0	98.3	142.9
1407	0.6	0.6	↓	8.80	5.70	24.83	351	0.0	72.7	137.1
1410	0.6	1.2	↓	8.90	5.63	25.01	360	0.0	49.9	124.7
1413	0.6	1.8	↓	8.94	5.63	25.23	363	0.0	28.8	124.6
1416	0.6	2.4	↓	8.94	5.65	25.59	362	0.0	25.9	130.0

TUBING INSIDE DIA. CAPACITY (Liters/Ft.): 1/8" = 0.0024; 3/16" = 0.0054; 1/4" = 0.0097; 5/16" = 0.0151; 3/8" = 0.0217; 1/2" = 0.0386; 5/8" = 0.0603

SAMPLING DATA

SAMPLED BY (PRINT) / AFFILIATION: B. Biggers/Antea Group	SAMPLER(S) SIGNATURES: B. Biggers	SAMPLING TIME: 14:20
FIELD DECONTAMINATION: Y (N)	FIELD-FILTERED: Y (N) Filtration Equipment Type: FILTER SIZE: ____ µm	DUPLICATE: Y (N)

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

REMARKS:

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

Turbidity:	<10 NTU or 3 Consecutive readings within 10% of each other
Temp.:	<0.5 Degrees C
pH:	<0.1 SU
Specific Conductance:	10%
Drawdown:	<0.5 ft from Initial
Dissolved Oxygen:	<0.5 mg/L

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	Arcadis	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #	
Package Sealed: Yes No	Samples Sealed: Yes No
Received on Ice: Yes No	Samples Intact: Yes No N/A
Temperature °C of Cooler	
Within Hold Time: Yes No	Preserv. Indicated: Yes No N/A
pH Check OK: Yes No	Res CL_2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No	COC not present

Sampler Name: MATTHEW ECKMAIR
Signature: [signature]
Project Name: Ashland Greensboro
Project Number: OH009000.NC10.16400
Project Location: Greensboro, NC
Date Required: Hard Copy: ___/___/___ Fax: ___/___/___
Lab PM: Jerry Lanier

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	SVOCs(8270C)	Additional Analyses / Remarks
		MW-3	9/20/16	1050	w	g	1		
		MW-6R		1340	w	g	1	1	1,2-dichlorobenzene included with all 8260
		MW-7S		1225	w	g	1	1	1,4-dioxane included with all 8270
		MW-7M		1200	w	g	1		
		MW-7D		1125	w	g	1	1	
		MW-7BR		1520	w	g	1		
		MW-11	9/19/16	1735	w	g	1	1	
		MW-12	9/20/16	0920	w	g	1		
		MW-12D		0845	w	g	1	1	
		MW-16		1305	w	g	1		
		MW-17D		0815	w	g	1		
		MW-19		1015	w	g	1		

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950				
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
_____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Send total of 23 VOC and 6 SVOC Bottle Sets plus 2 TB
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way, STE 106
Charlotte, NC 28277

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

STL-8208 (0600)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	ARCADIS	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #	
Package Sealed: Yes No	Samples Sealed: Yes No
Received on Ice: Yes No	Samples Intact: Yes No N/A
Temperature °C of Cooler	
Within Hold Time: Yes No	Preserv. Indicated: Yes No N/A
pH Check OK: Yes No	Res CL_2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No	COC not present

Sampler Name: M.ECKMAIR
Signature:
Project Name: Ashland Greensboro
Project Number: OH009000.NC10.16400
Project Location: Greensboro, NC
Date Required Hard Copy: ___/___/___ Fax: ___/___/___
Lab PM: Jerry Lanier

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	SVOCs(8270C)	Additional Analyses / Remarks
		MW-22	9/20/16	0740	w	g	1		1,2-dichlorobenzene included with all 8260
		MW-22BR		0718	w	g	1		1,4-dioxane included with all 8270
		MW-27S		1040	w	g	1		
		MW-27D		1130	w	g	1		
		MW-29S		1300	w	g	1		
		MW-29D		1330	w	g	1		
		MW-30		1420	w	g	1		
		EB-1		1335	w	g	1		
		IDW-1		1530	w	g	1		
		DUP-1		—	w	g	1	1	
		DUP-2		—	w	g	1		
		TRIP BLANK		—	W		1		

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950				
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Send total of 23 VOC and 6 SVOC Bottle Sets plus 2 TB
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way, STE 106
Charlotte, NC 28277

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

STL-8208 (0600)

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: Ashland Greensboro
SITE LOCATION: Greensboro, NC
DATE: 9/20/2016 **TIME:** 15:54
SAMPLE NO.: SW-3
WEATHER CONDITIONS: 78°F, Sunny, Lt. Winds
SAMPLED BY: Matthew Eckmair

SAMPLE LOCATION (WATERBODY NAME): Unamed stream/creek south of Patterson St and east of Holden RD
SAMPLE DEPTH: 0.2'
SURFACE WATER FLOW RATE: Low
SAMPLE SITE DESCRIPTION: culvert south of Immanuel Rd

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream
COLLECTION TIME: 15:55
SAMPLE INFORMATION:
pH: 7.43 **COND. (mS/cm):** 0.326 **TEMP(C°):** 23.69 **D.O. (g/ml)** 4.16

ANALYSIS: 8260 VOC +DCB
CONTAINERS: x3 40 ml
SAMPLE PREP/PRESERVATION: HCL

Turbidity: 28.1
ORP: -10.9

Gauge data	DTW	DTB
Brick in Concrete	1.40'	1.55'

CHAIN OF CUSTODY FORM:
SHIPPED VIA: Delivered to Courier (TA-Charlotte)
CHAIN OF CUSTODY SIGNED BY: Matthew Eckmair

LABORATORY: Test America
SENT ON:

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: Ashland Greensboro
SITE LOCATION: Greensboro, NC
DATE: 9/20/2016 **TIME:** 16:00
SAMPLE NO.: SW-4
WEATHER CONDITIONS: 78°F, Sunny, Lt. Winds
SAMPLED BY: Matthew Eckmair

SAMPLE LOCATION (WATERBODY NAME): Unamed stream/creek south of Patterson St and east of Holden RD
SAMPLE DEPTH: 0.2'
SURFACE WATER FLOW RATE: Low
SAMPLE SITE DESCRIPTION: Behind house in curve of Belmar St

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream
COLLECTION TIME: 16:05
SAMPLE INFORMATION:
pH: 7.31 **COND. (mS/cm):** 0.308 **TEMP(C°):** 23.81 **D.O. (g/ml)** 3.99

ANALYSIS:
8260 VOC +DCB

CONTAINERS:
x3 40 ml

SAMPLE PREP/PRESERVATION:
HCL

Turbidity: 31.2
ORP: 26.6

Gauge data	DTW	DTB
Rebar	7.72	7.98

CHAIN OF CUSTODY FORM:
SHIPPED VIA: Delivered to Courier (TA-Charlotte)
CHAIN OF CUSTODY SIGNED BY: Matthew Eckmair

Matthew Eckmair

LABORATORY: Test America
SENT ON:

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: Ashland Greensboro
SITE LOCATION: Greensboro, NC
DATE: 9/20/2016 **TIME:** 16:18
SAMPLE NO.: SW-5
WEATHER CONDITIONS: 78°F, Sunny, Lt. Winds
SAMPLED BY: Matthew Eckmair

SAMPLE LOCATION (WATERBODY NAME): Unamed stream/creek south of Patterson St and east of Holden RD
SAMPLE DEPTH: 0.2'
SURFACE WATER FLOW RATE: Low
SAMPLE SITE DESCRIPTION: Pedestrian bridge at end of Swan Ave

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream
COLLECTION TIME: 16:20
SAMPLE INFORMATION:
pH: 7.22 **COND. (mS/cm):** 0.289 **TEMP(C°):** 25.36 **D.O. (g/ml):** 4.7

ANALYSIS:
8260 VOC +DCB

CONTAINERS:
x3 40 ml

SAMPLE PREP/PRESERVATION:
HCL

Turbidity: 40.5
ORP: 26.8

Gauge data	DTW	DTB
Horizontal pipe (mid)	1.93	2.5

CHAIN OF CUSTODY FORM:
SHIPPED VIA: Delivered to Courier (TA-Charlotte)
CHAIN OF CUSTODY SIGNED BY: Matthew Eckmair

Matthew Eckmair

LABORATORY: Test America
SENT ON:

SURFACE WATER SAMPLING FORM

PROJECT/CLIENT: Ashland Greensboro
SITE LOCATION: Greensboro, NC
DATE: 9/20/2016 **TIME:** 16:25
SAMPLE NO.: SW-6
WEATHER CONDITIONS: 78°F, Sunny, Lt. Winds
SAMPLED BY: Matthew Eckmair

SAMPLE LOCATION (WATERBODY NAME): Unamed stream/creek south of W Florid St and west of Belmar RD
SAMPLE DEPTH: 0.2'
SURFACE WATER FLOW RATE: Low-Med
SAMPLE SITE DESCRIPTION: Culvert south of Florida St

SAMPLE COLLECTION METHOD: Allow jars to fill positioning open mouth of bottle upstream
COLLECTION TIME: 16:30
SAMPLE INFORMATION:
pH: 7.53 **COND. (mS/cm):** 0.278 **TEMP(C°):** 24.54 **D.O. (g/ml):** 4.01

ANALYSIS:	CONTAINERS:	SAMPLE PREP/PRESERVATION:
8260 VOC +DCB	x3 40 ml	HCL

Turbidity: 183
ORP: 26.1

DUP-1 Location

CHAIN OF CUSTODY FORM:
SHIPPED VIA: Delivered to Courier (TA-Charlotte)
CHAIN OF CUSTODY SIGNED BY: Matthew Eckmair

LABORATORY: Test America
SENT ON:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	Arcadis	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #	
Package Sealed: Yes No	Samples Sealed: Yes No
Received on Ice: Yes No	Samples Intact: Yes No N/A
Temperature °C of Cooler	
Within Hold Time: Yes No	Preserv. Indicated: Yes No N/A
pH Check OK: Yes No	Res CL_2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No	COC not present

Sampler Name: M.ECKMAIR	Signature:	Refrg #	
		# / Cont.	3
Project Name: Ashland Greensboro	Project Number: OH009000.NC10.16400	Volume	
		Preserv.	I
Project Location: Greensboro, NC	Date Required Hard Copy: ___/___/___		
Lab PM: Jerry Lanier	Fax: ___/___/___		

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	Additional Analyses / Remarks
		SW-3	9/20/16	1555	w	g	1	1,2-dichlorobenzene included with all 8260
		SW-4	↓	1605	w	g	1	
		SW-5		1620	w	g	1	
		SW-6		1630	w	g	1	
		DUP-1		—	w	g	1	
		Trip Blank		—			1	

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950				
RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other
_____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Total of 5 VOC bottle sets plus trip blank.
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way,STE 106
Charlotte, NC 28277

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

STL-8208 (0600)

CALIBRATION LOG
HANNA 9829

Instrument: HANNA 9879 Serial Number:g0062423/k3452263 ES:1558

Physical Calibration

Battery Check	100%	Condition	Replace Date:	New
DO Membrane	OK	Condition	Replace Date:	New

pH Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
pH 4.00	7606253	6/30/2018	4.38	22.00	4.00
pH 7.00	7605027	5/30/2018	7.19	22.00	7.00
pH 10.00	7605537	6/30/2018	10.07	22.00	10.00

Conductivity Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
1413 us/cm	2606A89	3/1/2018	1701	22.00	1413

Dissolved Oxygen Calibration

Calibration Standard	inHG	mmHG	Initial Reading	Temp. °C	Calibration Reading
Saturated DO		748.8	95.5%	22.00	98%

Oxygen Reduction Potential

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
200 mVolts	2606D35	3/1/2017	177.60	22.00	200

TURBIDITY

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
0.1 FNU	9059	7/1/2018	3.70	22.00	0.10
20 FNU	9049	1/1/2018	13.90	22.00	20.00
200 FNU	8801	10/1/2017	168.00	22.00	200.00

Signature:LMS Date:9/16/2016

CALIBRATION LOG
HORIBA U52

Instrument: Horiba U-52 | Serial Number: YGJT37X7 | ES #: 1157

Physical Calibration

Battery Check	100%	Voltage	Acceptable Range	100%	
		Control Unit	100%		
DO Membrane		Condition	Replace Date:	5/10/2014	
pH Internal Solution		Condition	Replace Date:	5/2/2014	

pH Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
pH 4.00	E016-12	1/21/2017	4.12	22.00	4.00
pH 7.00	E037-14	2/13/2017	6.69	22.00	7.00
pH 10.00	E009-04	1/12/2016	---	----	----

Conductivity Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
0.000 µs/cm	---	---	0.000	22.00	0.000
718 µs/cm	11383	11/26/2015	689	22.00	718
5.00 ms/cm	11385	11/26/2015	4.54	22.00	5.00
53.0 ms/cm	11384	11/26/2015	49.1	22.00	53.00

Dissolved Oxygen Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
Zero Dissolved Oxygen	---	---	---	---	----
Saturated DO @ 22.00 °C	---	---	92.9%	22.00	98%

Turbidity Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
0.0 NTU	11489	2/17/2016	0.0	22.00	0.0
100 NTU	201046-3	11/13/2015	86.3	22.00	100
800 NTU	201046-4	11/13/2015	742	22.00	800

Oxygen Reduction Potential Calibration

Calibration Standard	Lot #	Exp. Date	Initial Reading	Temp. °C	Calibration Reading
210 mVolts	11469	1/23/2016	206	22.00	210

Signature: _____LMS_____ Date: _____9/16/16_____

ARCADIS Design & Consultancy for natural and built assets

Attachment 2

Investigation-Derived Waste Disposal Manifest

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: NCD002415091
2. Page 1 of 1
3. Emergency Response Phone: 1-855-630-3648
4. Manifest Tracking Number: 010241910 FLE

5. Generator's Name and Mailing Address
ASHLAND INC - EPGS REMEDIATION
2802 PATTERSON ST
GREENSBORO NC 27407
Generator's Phone: 336-230-1102 ATTN: KYLE COPENSEN

Generator's Site Address (if different than mailing address)
ASHLAND INC - EPGS REMEDIATION
2802 PATTERSON ST
GREENSBORO NC 27407

6. Transporter 1 Company Name: NEXEO SOLUTIONS — U.S. EPA ID Number: [illegible]

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
NEXEO SOLUTIONS CHARLOTTE PLANT
3600 CLEMMONS RD
CHARLOTTE NC 28230
Facility's Phone: 704-381-2131
U.S. EPA ID Number: NCD061263315

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. NA3082, Hazardous waste, liquid, n.o.s. (D029, D040, D, III, ERG 171, 30-7812, GROUND WATER, Jacket-3037)	01	DF	60	P	D029	D040	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
Emergency Phone: NEXEO SOLUTIONS 1-855-630-3648 750117(10)

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: AUTHORIZED AGENT FOR ASHLAND INC — Signature: AUTHORIZED AGENT FOR ASHLAND INC — Month 11 Day 10 Year 16

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Troy T Smith — Signature: [signature] — Month 11 Day 17 Year 16
Transporter 2 Printed/Typed Name — Signature — Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
18b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:
18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. 2. 3. 4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name — Signature — Month Day Year

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

GENERATOR'S INITIAL COPY

nexeo™ solutions

Customer: ASHLAND INC -
EH&S
REMEDIATION
2802 PATTERSON

EPA ID#NCD024599011

Manifest Number:010241910FLE

Line Item	Waste Codes	Waste Code Sub-Category	WW / NWW	UHC's
1	D039 D040		NWW	trans-1,2-Dichloroethylene

* WW /NWW = Waste Water / Non Waste Water
This is to notify that to be land disposed, this waste must meet the applicable land disposal restriction treatment standard in 40 CFR 268 Subpart D.

Customer Signature: [signature]

Date: 11/17/16

AUTHORIZED AGENT
FOR ASHLAND INC.

ARCADIS Design & Consultancy for natural and built assets

Attachment 3

Summary of Historical Groundwater Analytical Results

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-1 12/14/1999	MW-1 4/9/2007
Field Parameters			
Temperature (°C)	NE	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<25	<250
Carbon Tetrachloride	0.3	**9.6**	<10
Chloroform	70	**17**	**11**
1,1-Dichloroethane	6	**24**	**33**
1,2-Dichloroethane	0.4	**87**	**74**
1,1-Dichloroethene	350	**1.5**	<10
cis-1,2-Dichloroethene	70	<1	<10
1,2-Dichloropropane	0.6	NA	<10
Ethylbenzene	600	<1	<10
Methylene Chloride	5	<5	<50
Tetrachloroethene	0.7	**160**	**110**
Toluene	600	<1	<10
1,1,1-Trichloroethane	200	**25**	<10
Trichloroethene	3	**14**	**17**
Vinyl Chloride	0.03	NA	<10
Xylenes (Total)	500	<2	<20
SVOCs (USEPA Method 8270C) µg/L			
1,2-Dichlorobenzene	20	NA	<10
1,4-Dichlorobenzene	6	NA	<10
Diethylphthalate	5,000	NA	<10
3&4-Methylphenol	400/40	NA	<10
Naphthalene	21	NA	<10
1,2,4-Trichlorobenzene	70	NA	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-1D	MW-1D	MW-1D	MW-1D	MW-1D	MW-1D	MW-1D	MW-1D
Date Sampled:	Standard	12/14/1999	4/9/2007	6/23/2008	6/9/2009	6/14/2010	6/20/2011	5/1/2012	6/19/2013
Field Parameters									
Temperature (°C)	NE	NR	NR	19.80	20.5	19.03	19.65	19.39	22.34
pH (standard units)	6.5 - 8.5	NR	NR	5.78	5.82	5.10	5.86	5.58	5.30
Dissolved Oxygen (mg/L)	NE	NR	NR	0.87	2.8	0.26	1.31	1.86	0.00
Specific Conductance (µS/cm)	NE	NR	NR	598	482	490	576	484	503
Oxidation-Reduction Potential (mV)	NE	NR	NR	153	94.7	-2.8	129.5	13.3	396.0
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<120	<25	<2,500	<1,200	<1,200	<130 UJ	<1300	<1300
Carbon Tetrachloride	0.3	**21**	**550**	**380**	**260**	**240**	**81 J**	**130**	**93**
Chloroform	70	**29**	**720**	**680**	**590**	**630**	**170 J**	**640**	**580**
1,1-Dichloroethane	6	**27**	**1,300**	**1,200**	**1,300**	**1,300**	**490 J**	**1,600**	**1,600**
1,2-Dichloroethane	0.4	NA	NA	<100	<250	**63**	**13 J**	**54**	**50**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	**480**	**12 J**	**330**	**390**
1,1-Dichloroethene	350	**140**	**5,100**	**4,200**	**4,000**	**4,000**	**500 J**	**3,900**	**3,700**
cis-1,2-Dichloroethene	70	<5	**78**	<100	<250	**110**	**15 J**	**160**	**190**
Ethylbenzene	600	<5	**190**	**220**	<250	**120**	**9.5 J**	**110**	**95**
Methylene Chloride	5	**480**	**7,900**	**6,600**	**6,700**	**5,000**	**200 J**	**4,800**	**4,600**
Tetrachloroethene	0.7	**330**	**6,800**	**7,600**	**7,200**	**7,700**	**720 J**	**7,100**	**8,500**
Toluene	600	**12**	**1,600**	**1,600**	**1,500**	**1,100**	**58 J**	**430**	**230**
1,1,1-Trichloroethane	200	**14**	**210**	**170**	<250	**110**	**67 J**	**110**	**260**
Trichloroethene	3	**170**	**810**	**800**	**710**	**770**	**120 J**	**830**	**870**
Vinyl Chloride	0.03	NA	NA	<100	<250	<50	<5.0 UJ	<50	<50
Xylenes (Total)	500	**16**	**770**	**910**	**950**	**680**	**46 J**	**470**	**380**
SVOCs (USEPA Method 8270C) µg/L									
1,2-Dichlorobenzene	20	NA	**200**	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	**22**	NA	NA	NA	NA	NA	NA
Diethylphthalate	5,000	NA	<10	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	700	NA	<10	NA	NA	NA	NA	NA	NA
3&4-Methylphenol	35/0.35	NA	<10	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	**170**	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2	MW-2
Date Sampled:	Standard	12/15/1999	4/10/2007	6/24/2008	6/10/2009	6/15/2010	6/20/2011	5/2/2012	6/19/2013
Field Parameters									
Temperature (°C)	NE	NR	NR	18.74	19.02	17.94	18.81	18.45	18.17
pH (standard units)	6.5 - 8.5	NR	NR	4.77	4.74	4.63	4.97	4.27	4.65
Dissolved Oxygen (mg/L)	NE	NR	NR	1.21	1.51	0.41	1.14	1	0.71
Specific Conductance (µS/cm)	NE	NR	NR	2270	1100	620	979	788	309
Oxidation-Reduction Potential (mV)	NE	NR	NR	253	135.9	72.3	207.5	159.4	288
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	**15,000**	**7,200**	**18,000**	**3,400**	<2,500	<2500	<2500	<630
Chloroform	70	<250	**74**	<250	<500	<100	<100	<100	<25
1,1-Dichloroethane	6	**1,900**	**720**	**1,200**	**530**	**230**	**590**	**470**	**120**
1,2-Dichloroethane	0.4	NA	NA	<250	<500	<100	<100	<100	<25
1,2-Dichlorobenzene	20	NA	NA	NA	NA	<100	**180**	<100	<25
1,1-Dichloroethene	350	**5,000**	**2,200**	<250	**1,400**	**670**	**1,900**	**1,400**	**390**
cis-1,2-Dichloroethene	70	**910**	**690**	**1,200**	**630**	**390**	**1500**	**920**	**250**
Ethylbenzene	600	**440**	**150**	**420**	<500	<100	**170**	<100	<25
Methylene Chloride	5	**38,000**	**6,300**	**12,000**	**3,300**	**630**	**2,600**	**1,500**	**150**
Tetrachloroethene	0.7	**26,000**	**12,000**	**28,000**	**10,000**	**6,200**	**17,000**	**7,700**	**2,700**
Toluene	600	**1,800**	**640**	**2,300**	<500	**130**	**660**	**320**	**39**
1,1,1-Trichloroethane	200	<250	**46**	<250	<500	<100	<100	<100	<25
Trichloroethene	3	**24,000**	**10,000**	**17,000**	**6,700**	**4,100**	**12,000**	**6300**	**1900**
Vinyl Chloride	0.03	NA	NA	<250	<500	<100	<100	<100	<25
Xylenes (Total)	500	**1,700**	**430**	**1,500**	<1,000	<200	**520**	**210**	<50
SVOCs (USEPA Method 8270C) µg/L									
1,2-Dichlorobenzene	20	NA	**130**	NA	NA	NA	NA	**44**	NA
1,4-Dichlorobenzene	6	NA	<50	NA	NA	NA	NA	<20	NA
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	**310**	NA
3-Methylphenol/4-Methylphenol	400/40	NA	<50	NA	NA	NA	NA	<41	NA
1,2,4-Trichlorobenzene	70	NA	<50	NA	NA	NA	NA	<20	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D
Date Sampled:	Standard	6/25/1998	6/10/1999	12/15/1999	6/22/2000	6/5/2001	6/17/2002	6/26/2003	6/24/2004
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	NA	ND	<50	<250	<50	<500	<120	<120
Benzene	1	NA	ND	<2	<10	<2	<50	<5	<5
2-Butanone (MEK)	4,000	<120	ND	<20	<100	<20	<50	<50	<50
Carbon Tetrachloride	0.3	NA	ND	<2	<10	<2	<50	<5	<5
Chloroform	70	<25	ND	<2	<10	<2	<50	<5	<5
1,1-Dichloroethane	6	<25	ND	<2	<10	<2	<50	<5	<5
1,1-Dichloroethene	350	<25	ND	**5**	**34**	**8**	<50	**16**	**20**
cis-1,2-Dichloroethene	70	<25	ND	<2	<10	<2	<50	**6.2**	**27**
Ethylbenzene	600	NA	ND	<2	<10	<2	<50	<5	<5
Methylene Chloride	5	<25	ND	<10	<50	<10	<50	<25	<25
Tetrachloroethene	0.7	**200**	**140**	**89**	**400**	**110**	**580**	**320**	**280**
Toluene	600	<25	ND	**7.4**	<10	<2	<50	<5	<5
1,1,1-Trichloroethane	200	<25	ND	<2	<10	<2	<50	<5	<5
Trichloroethene	3	**440**	**400**	**200**	**970**	**220**	**1,500**	**830**	**1,100**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<25	ND	<4	<20	<4	<100	<10	<10
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	<10	NA	NA	<10	**85**	<10	<10	<10
1,2-Dichlorobenzene	20	<10	NA	NA	<10	**130**	<10	<10	<10
1,4-Dichlorobenzene	6	<10	NA	NA	<10	**15**	<10	<10	<10
3-Methylphenol/4-Methylphenol	400/40	<10	NA	NA	<10	<10	<10	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D	MW-2D
Date Sampled:	Standard	6/8/2005	6/21/2006	4/10/2007	6/24/2008	6/10/2009	6/15/2010	6/20/2011	5/2/2012	6/19/2013
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	20.18	18.98	18.09	18.88	19.41	18.94
pH (standard units)	6.5 - 8.5	NR	NR	NR	6.95	6.10	5.90	5.57	6.42	6.01
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	6.44	13.28	1.77	1.11	4.44	2.11
Specific Conductance (µS/cm)	NE	NR	NR	NR	90	70	80	798	82	78
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	207	65.7	-62.1	114.7	-42.9	226
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<250	<250	<25	<500	<500	<500	<500	<1300	<1300
Benzene	1	<10	<10	<1	<20	<20	<20	<20	<50	<50
2-Butanone (MEK)	4,000	<100	<10	<10	<200	<500	<200	<200	<500	<500
Carbon Tetrachloride	0.3	<10	<10	**1.2**	<20	<100	<20	<20	<50	<50
Chloroform	70	<10	<10	**1.4**	<20	<100	<20	<20	<50	<50
1,1-Dichloroethane	6	<10	<10	<1	<20	<100	<20	<20	<50	<50
1,1-Dichloroethene	350	<10	**16**	**14**	**22**	<100	<20	<20	**53**	**64**
cis-1,2-Dichloroethene	70	<10	**14**	**26**	**20**	<100	<20	**31**	<50	<50
Ethylbenzene	600	<10	<10	<1	<20	<100	<20	<20	<50	<50
Methylene Chloride	5	<50	<50	<5	<100	<100	<100	<100	<250	<250
Tetrachloroethene	0.7	**180**	**410**	**320**	**660**	**740**	**870**	**420**	**1,100**	**1,700**
Toluene	600	<10	<10	<1	<20	<100	<20	<20	<50	<50
1,1,1-Trichloroethane	200	<10	<10	<1	<20	<100	<20	<20	<50	<50
Trichloroethene	3	**520**	**1,600**	**1,200**	**2,500**	**2,700**	**3,300**	**1,600**	**4,900**	**7,100**
Vinyl Chloride	0.03	NA	NA	NA	<20	<100	<20	<20	<50	<50
Xylenes (Total)	500	<20	<20	<2	<40	<200	<40	<40	<100	<100
SVOCs (USEPA Method 8270C) µg/L										
1,2,4-Trichlorobenzene	70	<10	<11	<9.8	<9.4	<10	<9.7	<1.1	<1.0	<0.96
1,2-Dichlorobenzene	20	<10	<11	<9.8	<9.4	<10	<9.7	<1.1	<1.0	<0.96
1,4-Dichlorobenzene	6	<10	<11	<9.8	<9.4	<10	<9.7	<1.1	<1.0	<0.96
3-Methylphenol/4-Methylphenol	400/40	<10	<11	<9.8	<9.4	<10	<9.7	<2.2	<2.0	<1.9

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-2BR	MW-2BR	MW-2BR	MW-2BR	MW-2BR	MW-2BR	MW-2BR	MW-2BR	MW-2BR
Date Sampled:	Standard	6/21/2006	12/7/2006	4/10/2007	12/13/2007	6/24/2008	12/8/2008	6/10/2009	12/29/2009	6/15/2010
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	18.13	19.78	16.54	19.23	15.61	18.59
pH (standard units)	6.5 - 8.5	NR	NR	NR	6.35	6.88	6.19	6.30	6.42	6.32
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	0.35	0.33	0.21	1.29	0.39	0.51
Specific Conductance (µS/cm)	NE	NR	NR	NR	321	298	266	243	271	263
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	-110	68	-157	92	50	-85.9
VOCs (USEPA Method 8260B) µg/L										
Benzene	1	**160**	**120**	**250**	**230**	**270**	<200	<200	<200	<200
Carbon Disulfide	700	NA	**21**	**2.8**	<100	<400	<400	<1,000	<1,000	<400
Carbon Tetrachloride	0.3	<50	<50	**3.5**	<50	<200	<200	<1,000	<1,000	<200
Chloroform	70	<50	**18**	**24**	<50	<200	<200	<1,000	<1,000	<200
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	<1,000	<200
1,1-Dichloroethane	6	<50	<50	**13**	<50	<200	<200	<1,000	<1,000	<200
1,2-Dichloroethane	0.4	NA	<50	**13**	<50	<200	<200	<1,000	<1,000	<200
1,1-Dichloroethene	350	**1,600**	**1,300**	**2,900**	**2,400**	**2,500**	**1,800**	**1,600**	**1,300**	**1,200**
cis-1,2-Dichloroethene	70	<50	**33**	**61**	**51**	<200	<200	<1,000	<1,000	**490**
trans-1,2-Dichloroethene	100	NA	<50	**1.7**	<50	<200	<200	<1,000	<1,000	<200
Ethylbenzene	600	<50	<50	**1.2**	<50	<200	<200	<1,000	<1,000	<200
Methylene Chloride	5	**580**	**370**	**1,000**	<250	<1,000	<1,000	<1,000	<1,000	<1,000
Tetrachloroethene	0.7	**9,800**	**3,400**	**30,000**	**31,000**	**34,000**	**25,000**	**24,000**	**12,000**	**23,000**
Toluene	600	<50	<50	**4.1**	<50	<200	<200	<1,000	<1,000	<200
1,1,1-Trichloroethane	200	<50	**160**	**400**	**380**	**420**	**270**	<1,000	<1,000	<200
1,1,2-Trichloroethane	NE	NA	<50	**4.0**	<50	<200	<200	<1,000	<1,000	<200
Trichloroethene	3	**7,000**	**4,800**	**13,000**	**12,000**	**14,000**	**10,000**	**9,600**	**5,600**	**9,000**
Vinyl Chloride	0.03	NA	NA	NA	<50	<200	<200	<1,000	<1,000	<200
Xylenes (Total)	500	<50	<100	**58**	<100	<400	<400	<2,000	<2,000	<400
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**21**	NA	**99**	NA	**68**	NA	**99**	NA	NA
1,2-Dichlorobenzene	20	**63**	NA	**170**	NA	**120**	NA	**150**	NA	NA
1,4-Dichlorobenzene	6	<10	NA	**11**	NA	<9.4	NA	**12**	NA	NA
Dimethylphthalate	NS	<10	NA	**19**	NA	<9.4	NA	<9.4	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-2BR	MW-2BR
Date Sampled:	Standard	6/20/2011	5/2/2012
Field Parameters			
Temperature (°C)	NE	18.93	18.75
pH (standard units)	6.5 - 8.5	6.63	6.66
Dissolved Oxygen (mg/L)	NE	0.75	1.43
Specific Conductance (µS/cm)	NE	295	218
Oxidation-Reduction Potential (mV)	NE	-16.1	-78.8
VOCs (USEPA Method 8260B) µg/L			
Benzene	1	<10 UJ	<200
Carbon Disulfide	700	<20 UJ	<400
Carbon Tetrachloride	0.3	<10 UJ	<200
Chloroform	70	<10 UJ	<200
1,2-Dichlorobenzene	20	<10 UJ	**200**
1,1-Dichloroethane	6	<10 UJ	<200
1,2-Dichloroethane	0.4	<10 UJ	<200
1,1-Dichloroethene	350	**12 J**	**1,500**
cis-1,2-Dichloroethene	70	**320 J**	**740**
trans-1,2-Dichloroethene	100	<10 UJ	<200
Ethylbenzene	600	<10 UJ	<200
Methylene Chloride	5	<50 UJ	<1000
Tetrachloroethene	0.7	**1,200 J**	**25,000**
Toluene	600	<10 UJ	<200
1,1,1-Trichloroethane	200	**140 J**	<200
1,1,2-Trichloroethane	NE	<10 UJ	<200
Trichloroethene	3	**400 J**	**7,300**
Vinyl Chloride	0.03	<10 UJ	<200
Xylenes (Total)	500	**32 J**	<400
SVOCs (USEPA Method 8270C) µg/L			
1,4-Dioxane	3	NA	**25**
1,2,4-Trichlorobenzene	70	NA	**81**
1,2-Dichlorobenzene	20	NA	**140**
1,4-Dichlorobenzene	6	NA	<9.7
Dimethylphthalate	NS	NA	<9.7

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Date Sampled:	Standard	6/26/1998	6/11/1999	12/14/1999	6/23/2000	6/6/2001	6/18/2002	6/25/2003	6/24/2004
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	NA	**6,900**	<12,000	<10,000	<5,000	<5,000	<5,000	**2,700**
Benzene	1	NA	**2,600**	**2,200**	**1,600**	**1,400**	**1,800**	**4,400**	**2,100**
Carbon Tetrachloride	0.3	NA	ND	<500	<400	<200	<500	<200	<100
Chloroform	70	<2,500	ND	<500	<400	<200	<500	<200	**110**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<2,500	**830**	**760**	**730**	**500**	**550**	**530**	**500**
1,1-Dichloroethene	350	**3,900**	**4,100**	**4,500**	**4,200**	**2,700**	**2,600**	**2,700**	**3,700**
cis-1,2-Dichloroethene	70	<2,500	**710**	**560**	**670**	**1,200**	**3,200**	**7,900**	**4,600**
Ethylbenzene	600	NA	**470**	<500	<400	<200	<500	**200**	<100
2-Hexanone	280[c]	NA	**5,200**	NA	NA	**2,100**	<2,500	<2,000	<1,000
Methylene Chloride	5	**46,000**	**32,000**	**33,000**	**28,000**	**17,000**	**12,000**	**9,000**	**10,000**
Tetrachloroethene	0.7	**48,000**	**51,000**	**42,000**	**36,000**	**21,000**	**20,000**	**19,000**	**32,000**
Toluene	600	**3,800**	**6,100**	**4,000**	**2,900**	**1,700**	**1,600**	**1,600**	**2,400**
1,1,1-Trichloroethane	200	<2,500	**390**	<500	<400	**240**	<500	<200	**130**
Trichloroethene	3	**17,000**	**28,000**	**24,000**	**18,000**	**12,000**	**11,000**	**11,000**	**12,000**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<2,500	**2,350**	**1,200**	**960**	**760**	<1,000	**1,200**	**1,000**
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	NA	**23**	**26**	<200	<100	<100
1,2-Dichlorobenzene	20	<1,000	NA	NA	**56**	**78**	<200	**120**	**220**
Dimethylphthalate	NS	<1,000	NA	NA	**3,400**	**3,200**	**1,500**	**1,200**	**1,600**
Di-n-butylphthalate	700	NA	NA	NA	<10	<10	<200	<100	<100
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3	MW-3
Date Sampled:	Standard	6/8/2005	6/22/2006	4/10/2007	6/23/2008	6/10/2009	6/15/2010	5/1/2012	6/19/2013
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	20.46	19.25	19.36	20.28	24.22
pH (standard units)	6.5 - 8.5	NR	NR	NR	5.06	4.87	4.65	4.73	4.61
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	0.83	1.46	0.3	1.16	0
Specific Conductance (µS/cm)	NE	NR	NR	NR	1049	882	992	970	888
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	21	120.2	61.9	132.3	256
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<5,000	<5,000	<5,000	<5,000	<6,200	<6,200	<6300	<6300
Benzene	1	**1,100**	**270**	**430**	**610**	**350**	**340**	<250	<250
Carbon Tetrachloride	0.3	<200	<200	<200	<200	<1200	<250	<250	<250
Chloroform	70	<200	<200	<200	<200	<1,200	<250	<250	<250
1,2-Dichlorobenzene	20	NA	NA	NA	NA	<1,200	**290**	<250	<250
1,1-Dichloroethane	6	**570**	**530**	**550**	**520**	<1,200	**410**	**420**	**390**
1,1-Dichloroethene	350	**3,800**	**3,200**	**3,400**	**3,100**	**2,800**	**1,900**	**2,200**	**1,900**
cis-1,2-Dichloroethene	70	**3,100**	**420**	**1,300**	**3,000**	**2,300**	**3,200**	**5,300**	**5,200**
Ethylbenzene	600	**270**	<200	<200	<200	<1,200	<250	<250	<250
2-Hexanone	280[c]	<200	<200	<2,000	<2,000	<6,200	<2,500	<2500	<2500
Methylene Chloride	5	**6,500**	**5,300**	**3,900**	**2,800**	**2,400**	**1,800**	<1300	<1300
Tetrachloroethene	0.7	**34,000**	**33,000**	**31,000**	**36,000**	**31,000**	**29,000**	**17,000**	**17,000**
Toluene	600	**1,900**	**1,100**	**1,000**	**1,400**	<1,200	**870**	**430**	<250
1,1,1-Trichloroethane	200	<200	<200	<200	<200	<1,200	<250	<250	<250
Trichloroethene	3	**11,000**	**8,800**	**9,500**	**8,700**	**6,900**	**7,000**	**6,000**	**5,700**
Vinyl Chloride	0.03	NA	NA	NA	<200	<1200	<250	<250	<250
Xylenes (Total)	500	**1,100**	**600**	**510**	**630**	<2,500	<500	<500	<500
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	**410**	**280**	**350 J**
1,2,4-Trichlorobenzene	70	NA	<96	<50	**59**	**65**	<97	**50**	<61
1,2-Dichlorobenzene	20	NA	**180**	**150**	**220**	**240**	**240**	**110**	**91 J**
Dimethylphthalate	NS	NA	**830**	**570**	**550**	**510**	**350**	**78**	NA
Di-n-butylphthalate	700	NA	<96	<50	<50	<38	<38	**18**	<61
Naphthalene	6	NA	NA	<50	<50	<38	<38	**3.7**	<12

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-3	MW-3
Date Sampled:	Standard	6/20/2014	9/22/2016
Field Parameters			
Temperature (°C)	NE	21.07	23.0
pH (standard units)	6.5 - 8.5	5.72	4.31
Dissolved Oxygen (mg/L)	NE	1.62	1.3
Specific Conductance (µS/cm)	NE	907	716
Oxidation-Reduction Potential (mV)	NE	173.7	211
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<6300	<2500
Benzene	1	<250	<250
Carbon Tetrachloride	0	<250	<250
Chloroform	70	<250	<250
1,2-Dichlorobenzene	20	<250	<250
1,1-Dichloroethane	6	**310**	**390**
1,1-Dichloroethene	350	**1,600**	**1,800**
cis-1,2-Dichloroethene	70	**4,800**	**6,700**
Ethylbenzene	600	<250	<250
2-Hexanone	280[c]	<2500	<250
Methylene Chloride	5	<1300	<1,300
Tetrachloroethene	0.7	**13,000**	**15,000**
Toluene	600	<250	<250
1,1,1-Trichloroethane	200	<250	<250
Trichloroethene	3	**4,900**	**6,100**
Vinyl Chloride	0.03	<250	<250
Xylenes (Total)	500	<500	<250
SVOCs (USEPA Method 8270C) µg/L			
1,4-Dioxane	3	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA
1,2-Dichlorobenzene	20	NA	NA
Dimethylphthalate	NS	NA	NA
Di-n-butylphthalate	700	NA	NA
Naphthalene	6	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5
Date Sampled:	Standard	12/7/1994	3/7/1995	9/6/1995	12/13/1995	3/28/1996	6/25/1996	9/25/1996	12/9/1996
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Carbon Tetrachloride	0.3	**28,000**	**24,000**	**22,000**	**31,000**	**24,000**	**21,000**	**16,000**	**21,000**
Chloroform	70	<10,000	<10,000	<5,000	<10,000	<5,000	NA	<5,000	NA
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	350	<10,000	<10,000	<5,000	<10,000	<5,000	<10,000	<5,000	<2,500
cis-1,2-Dichloroethene	70	<10,000	<10,000	<5,000	<10,000	<5,000	NA	<5,000	NA
Ethylbenzene	600	<10,000	<10,000	<5,000	<10,000	<5,000	<10,000	<5,000	<2,500
Methyl Isobutyl Ketone (MIBK)	NE	<50,000	<50,000	<25,000	<50,000	<25,000	NA	<25,000	NA
Methylene Chloride	5	<10,000	<10,000	<5,000	<10,000	**5,400**	<10,000	**6,600**	<2,500
Tetrachloroethene	0.7	**17,000**	**12,000**	**22,000**	**21,000**	**18,000**	**15,000**	**10,000**	**16,000**
Toluene	600	**220,000**	**220,000**	**180,000**	**280,000**	**190,000**	**180,000**	**140,000**	**180,000**
1,1,1-Trichloroethane	200	**77,000**	**68,000**	**57,000**	**65,000**	**54,000**	**40,000**	**38,000**	**55,000**
Trichloroethene	3	<10,000	<10,000	<5,000	<10,000	<5,000	<10,000	<5,000	<2,500
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<20,000	<20,000	<5,000	<20,000	<5,000	<10,000	<10,000	<2,500
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	NA	NA	**120**	**130**	<100	**160**	**200**	**360**
1,2-Dichlorobenzene	20	NA	NA	**400**	**280**	**170**	**400**	**400**	**370**
2-Methylphenol	NS	NA	NA	**360**	**410**	**310**	**250**	**310**	**370**
3-Methylphenol/4-Methylphenol	400/40	NA	NA	NA	NA	**140**	**210**	NA	NA
Benzyl Alcohol	NE	NA	NA	NA	NA	**130**	**170**	NA	**230**
bis(2-Ethylhexyl)phthalate	3	NA	NA	<100	<50	<100	**110**	**130**	**1,000**
Diethylphthalate	6,000	NA	NA	<100	<50	<100	<100	<50	<80

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5	MW-5R
Date Sampled:	Standard	3/17/1997	6/18/1997	9/30/1997	12/10/1997	3/19/1998	12/16/1999	6/6/2001	8/25/2011
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	21.71
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	5.99
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	0.58
Electrical Conductivity (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	0.613
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	7.1
VOCs (USEPA Method 8260B) µg/L									
Carbon Tetrachloride	0.3	**19,000**	**21,000**	**18,000**	**19,000**	**22,000**	**20,000**	**16,000**	**6,100**
Chloroform	70	NA	<2,500	NA	NA	NA	**2,300**	**2,100**	**910**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	**4,000**
1,4-Dichlorobenzene		NA	NA	NA	NA	NA	NA	NA	**590**
1,1-Dichloroethene	7	<2,500	<2,500	<2,500	<2,500	<10,000	**1,700**	**2,000**	<250
cis-1,2-Dichloroethene	70	NA	<2,500	NA	NA	NA	<500	<1,000	**10,000**
Ethylbenzene	600	<2,500	<2,500	<2,500	<2,500	<10,000	**660**	<1,000	**3,100**
Methyl Isobutyl Ketone (MIBK)	NE	NA	<12,000	NA	NA	NA	**24,000**	**21,000**	<2500
Methylene Chloride	5	**3,000**	<2,500	<2,500	<2,500	<10,000	<2,500	<5,000	<1300
Tetrachloroethene	0.7	**15,000**	**20,000**	**17,000**	**19,000**	**24,000**	**18,000**	**8,700**	**28,000**
Toluene	600	**180,000**	**150,000**	**160,000**	**130,000**	**150,000**	**170,000**	**150,000**	**28,000**
1,1,1-Trichloroethane	200	**52,000**	**38,000**	**35,000**	**36,000**	**41,000**	**38,000**	**49,000**	**10,000**
Trichloroethene	3	<2,500	<2,500	<2,500	<2,500	<10,000	**620**	<1,000	**3,100**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	<500	<1,000	<250
Xylenes (Total)	500	**4,100**	<5,000	<2,500	<2,500	<10,000	**4,500**	**1,500**	**20,000**
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	**120**	**92**	**170**	**110**	**94**	NA	**270**	NA
1,2-Dichlorobenzene	20	**380**	**230**	**250**	**280**	**220**	NA	**340**	NA
2-Methylphenol	NS	**170**	**100**	**110**	**230**	**64**	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	**140**	NA	**160**	**220**	**65**	NA	**260**	NA
Benzyl Alcohol	NE	**200**	NA	**110**	**230**	**150**	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	<100	<50	**97**	<100	<50	NA	<50	NA
Diethylphthalate	6000	<100	<50	<40	<100	<50	NA	**58**	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Date Sampled:	Standard	12/7/1994	3/7/1995	9/6/1995	12/13/1995	3/28/1996	6/25/1996	9/25/1996	12/9/1996
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<12,000	<12,000	<25,000	<25,000	<25,000	<25,000	<25,000	<12,000
Carbon Tetrachloride	0.3	<2,500	<2,500	<5,000	<5,000	<5,000	<5,000	<5,000	<2,500
Chloroform	70	<2,500	<2,500	<5,000	<5,000	<5,000	<5,000	<5,000	<2,500
1,2-Dichlorobenzene	0.6	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	**4,000**	**4,300**	<5,000	**5,400**	<5,000	<5,000	<5,000	**4,100**
1,2-Dichloroethane	0.4	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	7	**3,500**	**3,500**	<5,000	**5,200**	<5,000	<5,000	<5,000	**3,400**
cis-1,2-Dichloroethene	70	<2,500	<2,500	<5,000	<5,000	<5,000	<5,000	<5,000	<2,500
Ethylbenzene	600	<2,500	**2,800**	<5,000	<5,000	<5,000	<5,000	<5,000	<2,500
Methylene Chloride	5	**35,000**	**38,000**	**20,000**	**29,000**	**24,000**	**16,000**	**19,000**	**24,000**
Tetrachloroethene	0.7	**38,000**	**47,000**	**55,000**	**38,000**	**36,000**	**29,000**	**31,000**	**42,000**
Toluene	600	**71,000**	**68,000**	**62,000**	**60,000**	**57,000**	**56,000**	**60,000**	**60,000**
1,1,1-Trichloroethane	200	**100,000**	**80,000**	**100,000**	**95,000**	**98,000**	**84,000**	**92,000**	**110,000**
Trichloroethene	3	<2,500	<2,500	<5,000	<5,000	<5,000	<5000	<5000	<2,500
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	**10,000**	**6,800**	**6,800**	**10,000**	**9,300**	**5,000**	**5,400**	**8,700**
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	**6,600**	<4,000	**1,400**	**2,600**	**1,300**	**1,300**
1,2-Dichlorobenzene	20	NA	NA	**13,000**	**53,000**	**4,900**	**6,300**	**4,600**	**4,100**
1,4-Dichlorobenzene	6	NA	NA	<1,000	<4,000	<400	**500**	<400	<400
Diethylphthalate	6,000	NA	NA	<1,000	<4,000	<400	<400	<400	<400
Naphthalene	6	NA	NA	<1,000	<4,000	<400	<400	<400	<400

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6
Date Sampled:	Standard	3/17/1997	6/18/1997	9/30/1997	12/10/1997	3/19/1998	6/26/1998	6/11/1999	12/15/1999
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<12,000	<12,000	<12,000	<12,000	<25,000	<25,000	<25,000	<25,000
Carbon Tetrachloride	0.3	<2,500	<2,500	<1,200	<2,500	<5,000	<5,000	**790**	**680**
Chloroform	70	<2,500	<2,500	<1,200	<2,500	<5,000	<5,000	**1,200**	**1,300**
1,2-Dichlorobenzene	0.6	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<2,500	**3,800**	**2,500**	**2,900**	<5,000	<5,000	**2,000**	**1,400**
1,2-Dichloroethane	0.4	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	7	**3,300**	**4,400**	**2,800**	**3,100**	<5,000	**6,200**	**4,000**	**3,200**
cis-1,2-Dichloroethene	70	<2,500	<2,500	<1,200	<2,500	<5,000	<5,000	**970**	**410**
Ethylbenzene	600	<2,500	<2,500	**1,800**	<2,500	<5,000	<5,000	**2,300**	**2,200**
Methylene Chloride	5	**21,000**	**18,000**	**5,200**	**6,300**	**5,800**	**8,500**	**3,600**	**3,800**
Tetrachloroethene	0.7	**37,000**	**40,000**	**24,000**	**43,000**	**42,000**	**98,000**	**42,000**	**68,000**
Toluene	600	**64,000**	**57,000**	**53,000**	**60,000**	**54,000**	**64,000**	**68,000**	**75,000**
1,1,1-Trichloroethane	200	**110,000**	**86,000**	**96,000**	**100,000**	**100,000**	**78,000**	**93,000**	**82,000**
Trichloroethene	3	<2,500	<2,500	<1,200	<2,500	<5,000	**19,000**	**1,800**	**1,400**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	**9,200**	**8,900**	**9,300**	**19,000**	**5,900**	**22,000**	**10,000**	**9,400**
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**2,000**	**1,000**	**1,600**	**1,400**	**860**	**1,200**	**2,500**	NA
1,2-Dichlorobenzene	20	**8,400**	**3,300**	**5,200**	**5,300**	**3,000**	**4,900**	**5,200**	NA
1,4-Dichlorobenzene	6	**500**	**290**	<400	<400	**270**	<500	<500	NA
Diethylphthalate	6,000	<200	<250	<400	<400	<200	<500	<500	NA
Naphthalene	6	<200	<250	<400	<400	<200	<500	<500	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-6	MW-6	MW-6	MW-6	MW-6	MW-6R	MW-6R	MW-6R	MW-6R
Date Sampled:	Standard	6/23/2000	6/18/2002	6/25/2008	6/10/2009	6/21/2011	8/25/2011	5/3/2012	6/20/2013	12/10/2013
Field Parameters										
Temperature (°C)	NE	NR	NR	21.73	17.61	18.81	20.65	18.62	19.00	18.41
pH (standard units)	6.5 - 8.5	NR	NR	6.33	5.60	6.07	11.45	6.70	4.78	5.74
Dissolved Oxygen (mg/L)	NE	NR	NR	1.67	1.1	1.77	1.16	1.29	0.00	0.3
Specific Conductance (µS/cm)	NE	NR	NR	745	653	661	1.186	361	427	256
Oxidation-Reduction Potential (mV)	NE	NR	NR	171	96.9	159.8	-124.1	-60.1	246.0	-116.3
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<5000	<25,000	<2500	<5000	<5000	<13000	<500	<2500	<5000
Carbon Tetrachloride	0.3	**500**	<5,000	<500	<1,000	<200	<500	**120**	<100	<200
Chloroform	70	**1,300**	<5,000	<500	<1,000	<200	<500	**66**	<100	<200
1,2-Dichlorobenzene	0.6	NA	NA	NA	**8,500**	**5900**	**6,700**	**5,200 E**	**430**	**6,100**
1,4-Dichlorobenzene	6	NA	NA	NA	NA	**430**	<500	**340**	<100	**540**
1,1-Dichloroethane	6	**1,800**	<5,000	**980**	<1,000	<200	<500	**39**	<100	<200
1,2-Dichloroethane	0.4	NA	NA	<500	<1,000	<200	<500	<20	<100	<200
1,1-Dichloroethene	350	**3,000**	<5,000	**1,900**	**1,000**	**260**	**510**	**330**	**200**	**240**
cis-1,2-Dichloroethene	70	**670**	<5,000	**2,700**	**2,000**	**250**	<500	**360**	**190**	**1,100**
Ethylbenzene	600	**2,500**	<5,000	**2,000**	**1,100**	**450**	**1,800**	**1,300**	<100	**1,300**
Methylene Chloride	5	**5,700**	**5,800**	<2,500	<1,000	<1000	<2500	<100	<500	<1000
Tetrachloroethene	0.7	**41,000**	**65,000**	**58,000**	**30,000**	**25,000**	**34,000**	**31,000**	**8,400**	**36,000**
Toluene	600	**69,000**	**110,000**	**57,000**	**23,000**	**16,000**	**35,000**	**26,000**	**1,500**	**17,000**
1,1,1-Trichloroethane	200	**64,000**	**140,000**	**59,000**	**26,000**	**20,000**	**33,000**	**26,000**	**7,100**	**15,000**
Trichloroethene	3	**1,200**	<5,000	**2,500**	**1,400**	**990**	**1,700**	**1,200**	**230**	**860**
Vinyl Chloride	0.03	NA	NA	<500	<1,000	<200	<500	<20	<100	<200
Xylenes (Total)	500	**11,000**	**12,000**	**9,200**	**6,900**	**4,200**	**8,500**	**7,100**	**480**	**7,600**
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	<240	<210	<200	<98	NA
1,2,4-Trichlorobenzene	70	**5,400**	**30,000**	**2,400**	**700 J**	**780 J**	<210	**560**	**150 J**	NA
1,2-Dichlorobenzene	20	**10,000**	**25,000**	**9,300**	**4,100 J**	**3,500 J**	**860 J**	**3,400**	**450 J**	NA
1,4-Dichlorobenzene	6	**700**	<5,000	<940	<500	**250 J**	<210	**210**	**50 J**	NA
Diethylphthalate	6,000	<250	<5,000	<940	<500	NS	<210	<200	**150 J**	NA
Naphthalene	6	NA	<5,000	<940	<500	**49 J**	<210	**32**	<9.8	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-6R	MW-6R	MW-6R	MW-6R
Date Sampled:	Standard	6/20/2014	12/18/2014	6/24/2015	9/22/2016
Field Parameters					
Temperature (°C)	NE	18.41	16.09	28.30	22.35
pH (standard units)	6.5 - 8.5	5.74	5.27	5.19	5.27
Dissolved Oxygen (mg/L)	NE	0.3	3.62	2.79	0.54
Specific Conductance (µS/cm)	NE	256	379	2	291
Oxidation-Reduction Potential (mV)	NE	-116.3	96	-50.4	82.0
VOCs (USEPA Method 8260B) µg/L					
Acetone	6,000	<2500	<2,000	<1000	<5000
Carbon Tetrachloride	0.3	<100	<200	<100	<500
Chloroform	70	<100	<200	<100	<500
1,2-Dichlorobenzene	0.6	**800**	**7,100**	**7,800**	**2,300**
1,4-Dichlorobenzene	6	**110**	**490**	**550**	<500
1,1-Dichloroethane	6	**350**	<200	**250**	<500
1,2-Dichloroethane	0.4	<100	<200	<100	<500
1,1-Dichloroethene	350	**120**	<200	**170**	<500
cis-1,2-Dichloroethene	70	**5,500**	**1,400**	**4200**	**7,400**
Ethylbenzene	600	**150**	**1,500**	**1500**	<500
Methylene Chloride	5	<500	<1,000	<500	<2,500
Tetrachloroethene	0.7	**7,800**	**35,000**	**35,000**	**20,000**
Toluene	600	**2,500**	**14,000**	**18,000**	**4000**
1,1,1-Trichloroethane	200	**3,200**	**10,000**	**12,000**	**3600**
Trichloroethene	3	**190**	**890**	**910**	**880**
Vinyl Chloride	0.03	<100	<200	<100	<500
Xylenes (Total)	500	**990**	**7,500**	**8,500**	**2,600**
SVOCs (USEPA Method 8270C) µg/L					
1,4-Dioxane	3	<190	NA	<960	<2.0
1,2,4-Trichlorobenzene	70	<96	NA	590 J	**210**
1,2-Dichlorobenzene	20	580 J	NA	3,200 J	**880**
1,4-Dichlorobenzene	6	<96	NA	<480	**98**
Diethylphthalate	6,000	<96	NA	<480	<0.98
Naphthalene	6	<19	NA	<120	**14**

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Date Sampled:	Standard	12/7/1994	3/7/1995	9/6/1995	12/13/1995	3/28/1996	6/25/1996	9/25/1996	12/9/1996	3/17/1997
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<625	<625	<1,250	<3,000	<2,500	<2,500	<1,250	<625	<250
Benzene	1	<50	<50	<50	<120	<100	<100	<50	<25	<10
Carbon Tetrachloride	0.3	<50	<50	<50	<120	<100	<100	<50	<25	<10
Chloroform	70	<50	<50	<50	<120	<100	<100	<50	<25	<10
1,1-Dichloroethane	6	**250**	**150**	**190**	**430**	**560**	**270**	**200**	**150**	**52**
1,2-Dichloroethane	0.4	<50	<50	<50	<120	<100	<100	<50	<25	<10
1,1-Dichloroethene	350	**1,200**	**1,600**	**900**	**1,200**	**1,300**	**1,000**	**840**	**670**	**420**
cis-1,2-Dichloroethene	70	<50	**750**	<50	<120	**750**	<100	<50	<25	<10
1,2-Dichloropropane	0.6	<50	<50	<50	<120	<100	<100	<50	<25	<10
Ethylbenzene	600	<50	<50	<50	<120	<100	<100	<50	<25	<10
Methylene Chloride	5	**120**	**72**	**100**	**240**	**400**	<100	**73**	**41**	**29**
Tetrachloroethene	0.7	**1,300**	**890**	**1,100**	**1,700**	**1,900**	**1,500**	**760**	**930**	**490**
Toluene	600	<50	<50	<50	<120	<100	<100	<50	**28**	**33**
1,1,1-Trichloroethane	200	**1,600**	**1,000**	**1,300**	**1,700**	**2,100**	**1,700**	**1,000**	**1,100**	**690**
Trichloroethene	3	**100**	**89**	**82**	<120	**170**	**120**	**67**	**69**	**50**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<50	<50	<50	**140**	**230**	<100	**52**	**60**	**58**
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	**10**	<10	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	20	NA	NA	**20**	**15**	**22**	<10	**11**	<10	<10
1,4-Dichlorobenzene	6	NA	NA	<10	<10	<10	<10	<10	<10	<10
3-Methylphenol/4-Methylphenol	400/40	NA	NA	<10	<10	<10	<10	<10	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Date Sampled:	Standard	6/18/1997	9/30/1997	12/10/1997	3/19/1998	6/26/1998	6/10/1999	12/16/1999	6/23/2000	6/6/2001
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<120	<120	<125	<125	<1200	<500	<250	<250	<130
Benzene	1	<25	<25	<25	<25	<50	<20	<10	<10	<5
Carbon Tetrachloride	0.3	<25	<25	<25	<25	<50	<20	<10	<10	<5
Chloroform	70	**25**	<25	<25	<25	<50	**33**	<10	**12**	**6.4**
1,1-Dichloroethane	6	**340**	**140**	**260**	**120**	**100**	**380**	**140**	**100**	**49**
1,2-Dichloroethane	0.4	<25	<25	<25	<25	<50	<20	<10	<10	<5
1,1-Dichloroethene	350	**1,300**	**760**	**1,100**	**640**	**500**	**1,000**	**540**	**600**	**350**
cis-1,2-Dichloroethene	70	<25	<25	<25	<25	<50	**130**	**80**	**160**	**79**
1,2-Dichloropropane	0.6	<25	<25	<25	<25	<50	<20	<10	<10	<5
Ethylbenzene	600	**44**	<25	<25	<25	<50	**47**	**12**	<10	<5
Methylene Chloride	5	**150**	**33**	**52**	<25	<50	**160**	<50	<50	<25
Tetrachloroethene	0.7	**1,500**	**860**	**1,900**	**910**	**980**	**1,700**	**860**	**740**	**450**
Toluene	600	**170**	<25	**34**	<25	**310**	**35**	**14**	<10	<5
1,1,1-Trichloroethane	200	**1,400**	**1,100**	**1,700**	**960**	**730**	**1,800**	**830**	**570**	**380**
Trichloroethene	3	**130**	**88**	**170**	**320**	**820**	**1,300**	**2,000**	**1,800**	**860**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	**450**	**140**	**150**	**39**	**350**	**850**	**270**	**81**	**33**
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	<10	<10	<10	<10	NA	NA	<10	<10
1,2-Dichlorobenzene	20	<10	<10	<10	<10	**10**	NA	NA	<10	<10
1,4-Dichlorobenzene	6	<10	<10	<10	<10	<10	NA	NA	<10	<10
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<10	<10	<10	NA	NA	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Date Sampled:	Standard	6/24/2004	6/8/2005	6/22/2006	4/10/2007	6/23/2008	6/10/2009	6/14/2010	6/21/2011
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	17.72	16.98	18.54	18.03
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	4.20	4.68	4.63	4.37
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	3.53	5.65	1.07	2.81
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	186	170	172	171
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	312.1	190	12.1	102.9
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<25	<125	<25	<25	<25	<125	<50	<50
Benzene	1	<1.0	<5	<1.0	<1.0	<1.0	<5.0	<1.0	<2.0
Carbon Tetrachloride	0.3	<1	<5	<1	<1	<1.0	<5.0	<2.0	<2.0
Chloroform	70	**4.4**	<5	<1	**1.0**	<1.0	<5.0	<2.0	<2.0
1,1-Dichloroethane	6	**46**	**31**	**10**	**17**	**1.7**	<5.0	**5.2**	**6.2**
1,2-Dichloroethane	0.4					<1.0	<5.0	<2.0	<2.0
1,1-Dichloroethene	350	**430**	**200**	**76**	**120**	**300**	**190**	**14**	**16**
cis-1,2-Dichloroethene	70	**20**	**12**	**3.7**	**5.2**	**1.2**	<5.0	**8.2**	**4.7**
1,2-Dichloropropane	0.6	<1	<5	<1	<1	<1.0	<5.0	<2.0	<2.0
Ethylbenzene	600	<1	<5	**1.1**	<1	<1.0	<5.0	<2.0	<2.0
Methylene Chloride	5	<1	<25	<5	<5	<5.0	<5.0	<10	<10
Tetrachloroethene	0.7	**740**	**360**	**150**	**170**	**170**	**140**	**200**	**310**
Toluene	600	<1	<5	**6.3**	<1	<1.0	<5.0	<2.0	<2.0
1,1,1-Trichloroethane	200	**240**	**140**	**51**	**69**	**30**	**17**	**5.5**	**25**
Trichloroethene	3	**160**	**50**	**21**	**28**	**24**	**25**	**100**	**75**
Vinyl Chloride	0.03	NA	NA	NA	NA	<1.0	<5.0	<2.0	<2.0
Xylenes (Total)	500	<2	<5	**5.2**	<2	<2.0	<10	<4.0	<4.0
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	<9.5	<2.2
1,2,4-Trichlorobenzene	70	<10	<10	<9.8	<10	<9.4	<9.4	<9.5	<1.1
1,2-Dichlorobenzene	20	<10	<10	**14**	<10	<9.4	<9.4	<9.5	<1.1
1,4-Dichlorobenzene	6	<10	<10	<9.8	<10	<9.4	<9.4	<9.5	<1.1
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<10	<10	<9.4	<9.4	<9.5	<2.2

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S	MW-7S
Date Sampled:	Standard	6/17/2002	6/25/2003	5/3/2012	6/19/2013	12/10/2013	6/20/2014	12/17/2014	9/22/2016
Field Parameters									
Temperature (°C)	NE	NR	NR	17.97	17.69	17.64	17.19	17.49	23.0
pH (standard units)	6.5 - 8.5	NR	NR	4.81	4.39	4.77	5.95	4.24	4.92
Dissolved Oxygen (mg/L)	NE	NR	NR	0.24	1.62	3.06	2.89	1.22	4.8
Specific Conductance (µS/cm)	NE	NR	NR	376	939	284	188	302	238
Oxidation-Reduction Potential (mV)	NE	NR	NR	189.2	373.0	-45.6	145.1	249	191
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<500	<130	<25	<25	<25	<25	<10	<10
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	0.3	<25	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	70	<25	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	**78**	**7**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	**390**	**210**	**1.4**	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	**70**	**40**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	0.6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<25	**5.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	<25	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**660**	**570**	**15**	**3.2**	**4.7**	**4.9**	**3.8**	**1.7**
Toluene	600	<25	<5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	**420**	**310**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	**620**	**230**	**3.0**	<1.0	**1.1**	**1.0**	<1.0	<1.0
Vinyl Chloride	0.03	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	**85**	**77**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	<2.1	<1.9	NA	<2.2	NA	<1.9
1,2,4-Trichlorobenzene	70	<10	<10	<1.0	<0.96	NA	<1.1	NA	<0.96
1,2-Dichlorobenzene	20	<10	<10	<1.0	<0.96	NA	<1.1	NA	<0.96
1,4-Dichlorobenzene	6	<10	<10	<1.0	<0.96	NA	<1.1	NA	<0.96
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<2.1	<1.9	NA	<2.2	NA	<1.9

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7M	MW-7M	MW-7M	MW-7M	MW-7M	MW-7M	MW-7M
Date Sampled:	Standard	4/10/2007	5/3/2012	6/19/2013	6/19/2013	6/20/2014	12/17/2014	9/22/2016
Field Parameters								
Temperature (°C)	NE	NR	19.74	19.70	10.11	19.19	16.82	23.05
pH (standard units)	6.5 - 8.5	NR	7.10	6.30	6.16	6.91	6.14	6.41
Dissolved Oxygen (mg/L)	NE	NR	0.13	0.00	6.27	6.70	NA	0.80
Specific Conductance (µS/cm)	NE	NR	152	69	50	315	305	271
Oxidation-Reduction Potential (mV)	NE	NR	-29.4	164.0	-43.1	-62.2	-42	108
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<250	<250	<25	<25	<500	<200	<200
Benzene	1	<10	<1.0	<1.0	<1.0	<20	<20	<20
Carbon Tetrachloride	0.3	<10	<1.0	<1.0	<1.0	<20	<20	<20
Chloroform	70	**35**	**21**	<1.0	<1.0	**49**	**45**	**93**
1,2-Dichlorobenzene	20	<10	**25**	<1.0	<1.0	**160**	**140**	**190**
1,4-Dichlorobenzene	6	<1.0	<1.0	<1.0	<1.0	<20	<20	**20**
1,1-Dichloroethane	6	**91**	<1.0	<1.0	<1.0	<20	**200**	**440**
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	**430**	<20	<20
1,1-Dichloroethene	350	**540**	**220 E**	**2.0**	**2.3**	**740**	**660**	**1,100**
cis-1,2-Dichloroethene	70	**35**	**110**	**3.6**	**6.4**	**2,400**	**650**	**580**
1,2-Dichloropropane	0.6	<10	<1.0	<1.0	<1.0	<20	<20	<20
Ethylbenzene	600	<10	<1.0	<1.0	<1.0	<20	<20	<20
Methylene Chloride	5	<50	<5.0	<5.0	<5.0	<100	<100	<100
Tetrachloroethene	0.7	**2,900**	**1,100**	**96**	**92**	**1,200**	**2,500**	**5,500**
Toluene	600	<10	<1.0	<1.0	<1.0	<20	<20	<20
1,1,1-Trichloroethane	200	110	**100**	<1.0	**1.7**	**240**	**250**	**420**
Trichloroethene	3	**200**	**93**	**2.5**	**1.9**	**370**	**450**	**540**
Vinyl Chloride	0.03	NA	<1.0	<1.0	<1.0	<20	<20	<20
Xylenes (Total)	500	**140**	**57**	<2.0	<2.0	**440**	**290**	**490**
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	NA	**6.8**	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**16**	**7**	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	**26**	**25**	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
Date Sampled:	Standard	12/7/1994	3/7/1995	9/6/1995	12/13/1995	3/28/1996	12/9/1996	3/17/1997	6/18/1997
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<2,500	<1,200	<1,200	<1,200	<1,200	<600	<1,000	<1,000
Benzene	1	<500	<250	<250	<250	<250	<120	<100	<100
Carbon Tetrachloride	0.3	<500	<250	<250	<250	<250	<120	<100	<100
Chloroform	70	<500	<250	<250	<250	<250	<120	<100	<100
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<500	<250	<250	<250	<250	<120	<100	<100
1,1-Dichloroethene	350	**2,400**	**3,600**	**1,800**	**940**	**1,000**	**1,300**	**770**	**1,000**
cis-1,2-Dichloroethene	70	<500	<250	<250	<250	<250	<120	<100	<100
Ethylbenzene	600	<500	<250	<250	<250	<250	<120	<100	<100
Methylene Chloride	5	**760**	**820**	**480**	**340**	**400**	**260**	**200**	**170**
Tetrachloroethene	0.7	**9,000**	**6,900**	**8,400**	**4,600**	**5,700**	**8,100**	**5,200**	**6,700**
Toluene	600	<500	<250	<250	<250	<250	<120	<100	<100
1,1,1-Trichloroethane	200	**880**	**780**	**610**	**270**	**350**	**430**	**320**	**210**
Trichloroethene	3	**2,100**	**1,900**	**1,700**	**600**	**1,100**	**1,100**	**930**	**990**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	**630**	**430**	**550**	**370**	**430**	**350**	**260**	**310**
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	**130**	**130**	**140**	**130**	**91**	**87**
1,2-Dichlorobenzene	20	NA	NA	**620**	**450**	**570**	**420**	**300**	**250**
1,3-Dichlorobenzene	200	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	**54**	**48**	**59**	**44**	<40	**35**
3-Methylphenol/4-Methylphenol	400/40	NA	NA	<50	<40	<40	NA	<40	<20
Naphthalene	6	NA	NA	<50	<40	<40	<40	<40	<20
Phenol	30	NA	NA	<50	<40	<40	<40	<40	<20

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
Date Sampled:	Standard	9/30/1997	12/10/1997	3/19/1998	6/26/1998	6/10/1999	12/16/1999	6/23/2000	6/6/2001
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<1,200	<500	<1,200	<1,200	<1,200	<500	<250	<250
Benzene	1	<250	<100	<250	<250	<50	<20	<10	<10
Carbon Tetrachloride	0.3	<250	<100	<250	<250	<50	<20	<10	<10
Chloroform	70	<250	<100	<250	<250	<50	<20	<10	<10
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<250	<100	<250	<250	<50	<20	<10	**11**
1,1-Dichloroethene	350	**620**	**700**	**490**	**460**	**280**	**240**	**270**	**200**
cis-1,2-Dichloroethene	70	<250	<100	<250	NA	<50	<20	<10	<10
Ethylbenzene	600	<250	<100	<250	NA	<50	<20	<10	<10
Methylene Chloride	5	<250	**160**	<250	<250	<250	<100	<50	<50
Tetrachloroethene	0.7	**5,200**	**8,100**	**6,000**	**6,000**	**4,400**	**4,500**	**2,600**	**1,700**
Toluene	600	<250	<100	<250	<250	<50	<20	<10	<10
1,1,1-Trichloroethane	200	<250	**210**	<250	<250	<50	**92**	**82**	**73**
Trichloroethene	3	**880**	**980**	**740**	**710**	**530**	**520**	**340**	**230**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<250	**630**	**630**	<250	<100	<40	<20	<20
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**100**	**110**	**54**	**72**	**54**	NA	**18**	**47**
1,2-Dichlorobenzene	20	**220**	**250**	**100**	**180**	NA	NA	**26**	**56**
1,3-Dichlorobenzene	200	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	**28**	**35**	**21**	**22**	**17**	NA	<10	<10
3-Methylphenol/4-Methylphenol	400/40	<20	<20	<10	<20	NA	NA	<10	<10
Naphthalene	6	<20	<20	<10	NA	NA	NA	NA	NA
Phenol	30	<20	<20	<10	NA	NA	NA	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
Date Sampled:	Standard	6/17/2002	6/26/2003	6/24/2004	6/8/2005	6/22/2006	4/10/2007	6/24/2008
Field Parameters								
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	19.43
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	6.67
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	0.87
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	197
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	75
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<1,200	<620	<120	<500	<500	<250	<50
Benzene	1	<120	<25	<5	<100	<100	<10	<2.0
Carbon Tetrachloride	0.3	<120	<25	<5	<100	<100	<10	<2.0
Chloroform	70	<120	<25	<5	<100	<100	<10	<2.0
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<120	<25	<5	<100	<100	<10	<2.0
1,1-Dichloroethene	350	<120	**82**	**59**	**99**	**150**	**180**	**20**
cis-1,2-Dichloroethene	70	<120	<25	<5	<100	<100	<10	**2.1**
Ethylbenzene	600	<120	<25	<5	<100	<100	<10	<2.0
Methylene Chloride	5	<120	<120	<25	<100	<100	<50	<10
Tetrachloroethene	0.7	**4,100**	**2,700**	**830**	**1,900**	**3,500**	**3,000**	**520**
Toluene	600	<120	<25	<5	<100	<100	<10	<2.0
1,1,1-Trichloroethane	200	<120	**41**	**15**	**25**	<100	**30**	**5.0**
Trichloroethene	3	**320**	**160**	**61**	**97**	**170**	**170**	**30**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	<2.0
Xylenes (Total)	500	<250	<50	<10	<100	<100	**23**	<4.0
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**38**	<10	**22**	**110**	**100**	**82**	**12**
1,2-Dichlorobenzene	20	**62**	<10	<10	**170**	**160**	**130**	**17**
1,3-Dichlorobenzene	200	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	**11**	<10	<10	**22**	**20**	**16**	<9.4
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<10	<10	<10	<10	<9.4
Naphthalene	6	NA	NA	NA	NA	NA	<10	<9.4
Phenol	30	<10	<10	**20**	<10	<9.4	<10	<9.4

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D	MW-7D
Date Sampled:	Standard	6/10/2009	6/14/2010	6/14/2010	5/2/2012	6/19/2013	6/20/2014	9/22/2016
Field Parameters								
Temperature (°C)	NE	18.41	19.56	18.97	18.67	19.86	19.46	23.56
pH (standard units)	6.5 - 8.5	6.18	5.79	6.23	5.55	5.17	5.39	5.35
Dissolved Oxygen (mg/L)	NE	0.66	0.29	0.49	1.13	0.00	2.39	0.93
Specific Conductance (µS/cm)	NE	84	148	132	93	84	100	106
Oxidation-Reduction Potential (mV)	NE	49.2	-136.3	10.3	6.1	265.0	145.8	149.0
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<50	<50	<50	<630	<630	<1300	<500
Benzene	1	<2.0	<2.0	<2.0	<25	<25	<50	<50
Carbon Tetrachloride	0.3	<10	<2.0	<2.0	<25	<25	<50	<50
Chloroform	70	<10	<2.0	<2.0	<25	<25	<50	<50
1,2-Dichlorobenzene	20	NA	**2.5**	<2.0	**120**	**56**	**180**	**60**
1,1-Dichloroethane	6	<10	<2.0	**4.3**	<25	<25	<50	**76**
1,1-Dichloroethene	350	**11**	**11**	**33**	<25	**150**	**230**	**330**
cis-1,2-Dichloroethene	70	**370**	**350**	**140**	<25	<25	<50	**170**
Ethylbenzene	600	<10	<2.0	<2.0	<25	<25	<50	<50
Methylene Chloride	5	<10	<10	<10	<130	<130	<250	<250
Tetrachloroethene	0.7	**140**	**4.7**	**180**	**4,200**	**3,500**	**5,400**	**3,000**
Toluene	600	<10	<2.0	<2.0	<25	<25	<50	<50
1,1,1-Trichloroethane	200	<10	<2.0	**7.4**	<25	<25	<50	<50
Trichloroethene	3	**120**	**2.4**	**57**	**100**	**61**	**88**	**400**
Vinyl Chloride	0.03	<10	<2.0	<2.0	<25	<25	<50	<50
Xylenes (Total)	500	<20	<4.0	<4.0	<50	<50	<100	**73**
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	NA	<9.7	**18**	**22**	**21**	NA	**15**
1,2,4-Trichlorobenzene	70	<10	<9.7	**34**	**50**	<0.99	NA	**34**
1,2-Dichlorobenzene	20	<10	<9.7	**45**	**63**	**9.9**	NA	**47**
1,3-Dichlorobenzene	200	NA	NA	**1.6**	NA	**1.2**	NA	**1.1**
1,4-Dichlorobenzene	6	<10	<9.7	**7.4**	**9.5**	**5.1**	NA	**4.4**
3-Methylphenol/4-Methylphenol	400/40	<10	<9.7	<2.1	<9.8	<2.0	NA	<1.9
Naphthalene	6	<10	<10	**0.60**	NA	**0.55**	NA	**6.9**
Phenol	30	<10	<10	**2.3**	NA	**2.2**	NA	<0.96

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-7BR	MW-7BR	MW-7BR	MW-7BR	MW-7BR	MW-7BR	MW-7BR
Date Sampled:	Standard	6/9/2009	6/15/2010	6/21/2010	5/3/2012	6/20/2013	6/20/2014	9/22/2016
Field Parameters								
Temperature (°C)	NE	21.25	21.21	21.33	20.54	23.4	21.59	20.4
pH (standard units)	6.5 - 8.5	6.51	6.38	6.48	6.59	4.76	7.24	7.0
Dissolved Oxygen (mg/L)	NE	0.55	0.6	0.53	0.14	0	3.14	0.0
Specific Conductance (µS/cm)	NE	278	328	302	1110	2030	1,386	1,641
Oxidation-Reduction Potential (mV)	NE	24.1	50.7	45.6	182.9	21	-249.7	-167
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<50	<1200	**66**	**13,000**	<2500	<5000	<200
Benzene	1	<2.0	<50	<2.0	**7.9**	<100	<200	<200
Chloroform	70	<10	<50	<2.0	**22**	<100	<200	<200
1,2-Dichlorobenzene	20	<10	<50	<2.0	**380**	**420**	**1,200**	**1,700**
1,1-Dichloroethane	6	<10	**92**	**8.1**	**43**	<100	**290**	**1,200**
1,2-Dichloroethane	0.4	<10	<50	<50	**17**	<100	<200	<200
1,1-Dichloroethene	350	**11**	**340**	**40**	**1,000**	**970**	**3,900**	**920**
cis-1,2-Dichloroethene	70	**370**	**220**	**150**	**10,000**	**1,200**	**30,000**	**9,700**
trans-1,2-Dichloroethene	100	<10	<50	<2.0	**160**	<100	<200	<200
Ethylbenzene	600	<10	<50	<2.0	**240**	**270**	**1,000**	**1,300**
Methylene Chloride	5	<10	<250	**14**	**2,100**	**1,200**	<1000	<200
Tetrachloroethene	0.7	**140**	**710**	**98**	**1,500**	**6,500**	**1,800**	**640**
Toluene	600	<10	<50	**16**	**3,200**	**4,100**	**11,000**	**7,200**
1,1,1-Trichloroethane	200	<10	**190**	<2.0	**490**	<100	<200	<200
Trichloroethene	3	**120**	**3,800**	**35**	**640**	**6200**	**2,100**	**850**
Vinyl Chloride	0.03	<10	<50	<2.0	**11**	<100	**2,200**	**2,400**
Xylenes (Total)	500	<20	<100	**4.3**	**840**	**990**	**3,500**	**4,800**
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	NA	NA	NA	**300**	NA	NA	NA
1,2,4-Trichlorobenzene	70	**120**	NA	NA	**94**	NA	NA	NA
1,2-Dichlorobenzene	20	**84**	NA	NA	**450**	NA	NA	NA
1,4-Dichlorobenzene	6	**17**	NA	NA	**31**	NA	NA	NA
2-methylnaphthalene	30	NA	NA	NA	**3.5**	NA	NA	NA
Naphthalene	6	<9.4	<9.4	NA	**17**	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-8	MW-8	MW-8	MW-8	MW-8	MW-8
Date Sampled:	Standard	12/7/1994	3/7/1995	9/26/1996	12/15/1999	4/10/2007	12/17/2010
Field Parameters							
Temperature (°C)	NE	NR	NR	NR	NR	NR	16.96
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	7.16
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	1.02
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	320
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	97.8
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	<1,200	<1,200	<50	<25	<50	<25
Benzene	1	<250	<250	<5	<1	<2	<1.0
Carbon Tetrachloride	0.3	<250	<250	<5	<1	<2	<1.0
Chloroform	70	<250	<250	<5	**1.3**	<2	**2.2**
1,1-Dichloroethane	6	<250	<250	<5	<1	<2	**9.5**
1,1-Dichloroethene	350	**2,600**	**3,400**	<5	**2.7**	**10**	**68**
cis-1,2-Dichloroethene	70	<250	<250	<5	<1	**2.8**	<1.0
Ethylbenzene	600	<250	<250	<5	<1	<2	<1.0
Methylene Chloride	5	**760**	**760**	<5	<5	<10	<5.0
Tetrachloroethene	0.7	**8,600**	**7,100**	<5	**11**	**87**	**160**
Toluene	600	<250	<250	<5	<1	<2	<1.0
1,1,1-Trichloroethane	200	**930**	**800**	<5	<1	<2	<1.0
Trichloroethene	3	**2,000**	**2,000**	<5	**14**	**250**	**180**
Vinyl Chloride	0.03	NA	NA	NA	NA	<2	<1.0
Xylenes (Total)	500	**910**	**490**	<10	<2	<4	<2.0
SVOCs (USEPA Method 8270C) µg/L							
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	<9.4	NA
1,2-Dichlorobenzene	20	NA	NA	NA	NA	<9.4	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	<9.4	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA	NA	NA	<9.4	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D
Date Sampled:	Standard	9/26/1996	6/25/1998	6/10/1999	12/15/1999	6/22/2000	6/5/2001	6/17/2002	6/25/2003	6/23/2004
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<50	<50	ND	<25	<25	<25	<50	<25	<25
Benzene	1	<5	<5	ND	<1	<1	<1	<5	<1	<1
2-Butanone (MEK)	4,000	<25	<25	ND	<10	<10	<10	<25	<10	<10
Carbon Tetrachloride	0.3	<5	<5	ND	**1.2**	<1	**1.3**	<5	**2.8**	**1.3**
Chloroform	70	<5	<5	ND	<1	<1	<1	<5	**2.0**	**1.8**
1,1-Dichloroethane	6	<5	<5	ND	<1	<1	<1	<5	<1	<1
1,2-Dichloroethane	0.4	<5	<5	NA	NA	<1	<1	<1	<1	1.1
1,1-Dichloroethene	350	<5	<5	ND	<1	<1	<1	<5	**1.9**	**2.0**
cis-1,2-Dichloroethene	70	<5	<5	ND	<1	<1	<1	<5	<1	<1
1,2-Dichloropropane	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	600	<5	<5	ND	<1	<1	<1	<5	<1	<1
Methyl Isobutyl Ketone (MIBK)	NE	<25	<25	ND	<10	<10	<10	<25	<10	<10
Methylene Chloride	5	<5	<5	ND	<5	<5	<5	<5	<5	<5
Tetrachloroethene	0.7	<5	<5	**1**	**5.8**	**5.9**	**5.7**	**15**	**16**	**16**
Toluene	600	<5	<5	ND	<1	<1	<1	<5	<1	<1
1,1,1-Trichloroethane	200	<5	<5	ND	<1	<1	<1	<5	<1	<1
1,1,2-Trichloroethane	NE	<5	<5	ND	<1	<1	<1	<5	<1	<1
Trichloroethene	3	<5	<5	ND	**6.7**	**4.8**	**7.6**	**26**	**28**	**27**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<5	<5	ND	<2	<2	<2	<10	<2	<2
SVOCs (USEPA Method 8270C) µg/L										
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	NA	NA	<10	NA
1,2-Dichlorobenzene	24	<10	NA	NA	NA	NA	NA	NA	<10	NA
1,4-Dichlorobenzene	1.4	<10	NA	NA	NA	NA	NA	NA	<10	NA
3-Methylphenol/4-Methylphenol	35/0.35	<10	NA	NA	NA	NA	NA	NA	<10	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D	MW-8D
Date Sampled:	Standard	6/7/2005	4/10/2007	6/24/2008	6/9/2009	6/14/2010	6/20/2011	4/30/2012	6/18/2013
Field Parameters									
Temperature (°C)	NE	NR	NR	17.95	20.43	19.60	19.33	18.73	19.26
pH (standard units)	6.5 - 8.5	NR	NR	5.86	5.64	5.39	5.76	5.83	5.47
Dissolved Oxygen (mg/L)	NE	NR	NR	7.23	13.01	2.25	5.93	5.47	4.81
Specific Conductance (µS/cm)	NE	NR	NR	57	46	49	48	51	50
Oxidation-Reduction Potential (mV)	NE	NR	NR	225	104.8	-17.8	198.7	167.8	317.0
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<10	<10	<10	<25	<10	<10	<10	<10
Carbon Tetrachloride	0.3	**1.7**	**3.1**	**3.1**	<5.0	**3.8**	<1.0	**3.8**	**4.6**
Chloroform	70	**2.5**	**4.9**	**5.3**	**5.5**	**9.1**	1.7 UB	**14**	**15**
1,1-Dichloroethane	6	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	<1	<1	<1.0	<5.0	<1.0	<1.0	**1.2**	**1.2**
1,1-Dichloroethene	350	**2.8**	**3.3**	**5.7**	<5.0	**2.5**	<1.0	**3.1**	**4.9**
cis-1,2-Dichloroethene	70	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	0.6	NA	NA	**3.3**	<5.0	**4.1**	**2.0**	**5.0**	**3.4**
Ethylbenzene	600	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10	<10	<5.0	<10	<10	<10	<10
Methylene Chloride	5	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**22**	**29**	**44**	**32**	**33**	**1.5**	**40**	**48**
Toluene	600	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	NE	<1	<1	**1.0**	<5.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	**39**	**64**	**87**	**74**	**86**	**5.8**	**120**	**130**
Vinyl Chloride	0.03	NA	NA	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<2	<2	<2.0	<10	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	NA	<10	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	<10	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	<10	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	40	NA	<10	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Date Sampled:	Standard	6/25/1998	6/10/1999	12/16/1999	6/22/2000	6/6/2001	6/18/2002	6/26/2003	6/24/2004	6/8/2005
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	NA	**22,000**	**9,600**	**10,000**	**8,700**	**22,000**	**920**	<500	<250
Benzene	1	NA	**57**	**50**	**54**	<40	<620	**46**	<20	**11**
2-Butanone (MEK)	4,000	**660**	**9,100**	**3,800**	**5,400**	**2,800**	**8,100**	**410**	<20	<10
Carbon Disulfide	700	NA	**91**	NA	**87**	NA	NA	NA	NA	NA
Carbon Tetrachloride	0.3	NA	**87**	**43**	**60**	<40	<620	<25	<20	<10
Chloroform	70	**230**	**720**	**530**	**660**	**240**	<620	**280**	**78**	**34**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	**600**	**1,300**	**1,200**	**1,400**	**850**	**1,700**	**1,100**	**430**	**360**
1,2-Dichloroethane	0.4									
1,1-Dichloroethene	350	**950**	**2,200**	**1,900**	**2,600**	**1,400**	**2,400**	**1,700**	**710**	**550**
cis-1,2-Dichloroethene	70	**1,900**	**3,000**	**3,500**	**4,000**	**2,500**	**4,100**	**3,800**	**1,600**	**1,400**
Ethylbenzene	600	NA	**340**	**170**	**350**	**120**	<620	**160**	<20	<10
Methylene Chloride	5	**140**	**1,700**	**800**	**1,500**	**400**	**1,200**	**120**	<20	<50
Tetrachloroethene	0.7	**720**	**2,600**	**1,900**	**2,800**	**740**	**2,000**	**840**	**300**	**140**
Toluene	600	**720**	**8,300**	**2,900**	**5,800**	**2,300**	**7,200**	**2,200**	**100**	**10**
1,1,1-Trichloroethane	200	**150**	**470**	**360**	**410**	**140**	<620	**130**	**32**	**18**
Trichloroethene	3	**190**	**840**	**570**	**690**	**220**	<620	**320**	**110**	**59**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	**700**	**1,800**	**1,200**	**1,900**	**780**	<1,600	**1,100**	**200**	**120**
SVOCs(USEPA Method 8270C) µg/L										
1,2,4-Trichlorobenzene	70	**110**	NA	NA	**420**	<50	**320**	**82**	<200	NA
1,2-Dichlorobenzene	20	**210**	NA	NA	**880**	**690**	**830**	**180**	**430**	NA
1,4-Dichlorobenzene	6	<40	NA	NA	**74**	**53**	**60**	**20**	<200	NA
3-Methylphenol/4-Methylphenol	400/40	<40	NA	NA	<50	<50	<50	<10	<200	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9	MW-9
Date Sampled:	Standard	6/21/2006	4/10/2007	6/23/2008	6/9/2009	6/14/2010	12/17/2010	6/20/2011	5/1/2012	6/19/2013
Field Parameters										
Temperature (°C)	NE	NR	NR	19.50	19.07	18.95	16.79	18.65	18.93	27.21
pH (standard units)	6.5 - 8.5	NR	NR	5.24	5.58	5.24	6.93	6.21	5.49	5.19
Dissolved Oxygen (mg/L)	NE	NR	NR	0.61	1.43	0.10	2.71	0.84	1.35	0.00
Specific Conductance (µS/cm)	NE	NR	NR	245	256	264	215	239	225	181
Oxidation-Reduction Potential (mV)	NE	NR	NR	132.9	88.4	-83.3	174.5	22.7	-30.4	172.0
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<500	<25	<1,200	<500	<1,200	<1,200	<1300	<1300	<1300
Benzene	1	<20	**21**	<50	**29**	<50	<50	<50	<50	<50
2-Butanone (MEK)	4,000	<20	<10	<500	<500	<500	<500	<500	<500	<500
Carbon Disulfide	700	NA	<2	<100	<100	<100	<100	<100	<100	<100
Carbon Tetrachloride	0.3	<20	<1	<50	<100	<50	<50	<50	<50	<50
Chloroform	70	**52**	**17**	<50	<100	<50	<50	<50	<50	<50
1,2-Dichlorobenzene	20	NA	NA	NA	NA	**970**	**580**	**680**	**410**	**250**
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	**77**	**61**	NA
1,1-Dichloroethane	6	**510**	**600**	**890**	**880**	**1,100**	**830**	**660**	**660**	**440**
1,2-Dichloroethane	0.4			<50	<100	<50	<50	<50	<50	<50
1,1-Dichloroethene	350	**790**	**1,400**	**1,800**	**1,800**	**2,500**	**1,900**	**1,600**	<50	**1,000**
cis-1,2-Dichloroethene	70	**2,100**	**3,200**	**4,100**	**4,100**	**6,000**	**4,900**	**3,800**	**3,900**	**2,700**
Ethylbenzene	600	<20	<1	<50	<100	<50	<50	<50	<50	<50
Methylene Chloride	5	<100	<5	<250	<100	<250	<250	<500	<250	<250
Tetrachloroethene	0.7	**220**	**120**	**490**	**730**	**660**	**370**	**480**	**520**	**580**
Toluene	600	<20	**7.1**	<50	<100	<50	<50	<50	<50	<50
1,1,1-Trichloroethane	200	**34**	<1	<50	<100	<50	<50	<50	<50	<50
Trichloroethene	3	**110**	**73**	**260**	**230**	**190**	**140**	**170**	**210**	**210**
Vinyl Chloride	0.03	NA	**3.6**	<50	<100	<50	<50	<50	<50	<50
Xylenes (Total)	500	**190**	**270**	**420**	**480**	**640**	**400**	**500**	**300**	**150**
SVOCs(USEPA Method 8270C) µg/L										
1,2,4-Trichlorobenzene	70	**73**	**39**	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	**230**	**160**	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<49	**15**	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	<10	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-10 12/16/1999	MW-10 12/17/2010
Field Parameters			
Temperature (°C)	NE	NR	16.93
pH (standard units)	6.5 - 8.5	NR	6.04
Dissolved Oxygen (mg/L)	NE	NR	0.39
Specific Conductance (µS/cm)	NE	NR	493
Oxidation-Reduction Potential (mV)	NE	NR	112.3
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<12,000	<1200
Benzene	1	<500	<50
2-Butanone (MEK)	4,000	<5,000	<500
Carbon Tetrachloride	0.3	**2,700**	**160**
Chloroform	70	<500	**98**
1,2-Dichlorobenzene	20	NA	**1,200**
1,1-Dichloroethane	6	NA	**58**
1,1-Dichloroethene	350	**1,700**	**590**
cis-1,2-Dichloroethene	70	**1,100**	**450**
Ethylbenzene	600	**7,500**	**730**
Methyl Isobutyl Ketone (MIBK)	NE	<5,000	<500
Methylene Chloride	5	<2,500	<250
Tetrachloroethene	0.7	**22,000**	**6,900**
Toluene	600	**58,000**	**6,700**
1,1,1-Trichloroethane	200	**40,000**	**5,100**
Trichloroethene	3	**1,500**	**860**
Vinyl Chloride	0.03	NA	<50
Xylenes (Total)	500	**35,000**	**3,700**
SVOCs (USEPA Method 8270C) µg/L			
1,2,4-Trichlorobenzene	70	NA	NA
1,2-Dichlorobenzene	20	NA	NA
1,4-Dichlorobenzene	6	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Date Sampled:	Standard	9/25/1996	6/25/1998	12/23/1998	6/10/1999	12/14/1999	6/22/2000	12/18/2000	6/6/2001	12/13/2001
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<5,000	NA	NA	ND	<2,500	<2,500	NA	<2,500	<2,500
Benzene	1	<500	NA	NA	ND	<100	**120**	**110**	<100	<100
Carbon Tetrachloride	0.3	<500	NA	NA	ND	<100	<100	NA	<100	<100
Chloroform	70	<500	<500	NA	ND	<100	<100	**6.1**	<100	<100
1,1-Dichloroethane	6	<500	<500	<250	ND	<100	<100	**100**	**100**	**130**
1,1-Dichloroethene	350	**1,600**	**1,600**	**1,700**	**1,500**	**1,700**	**1,900**	**1,400**	**1,600**	**2,200**
cis-1,2-Dichloroethene	70	**4,300**	**10,000**	**9,400**	**10,000**	**10,000**	**13,000**	**9,300**	**11,000**	**14,000**
trans-1,2-Dichloroethene	100	<500	NA	NA	NA	NA	NA	**51**	NA	NA
Ethylbenzene	600	<500	NA	NA	ND	<100	<100	NA	<100	<100
Methylene Chloride	5	**13,000**	**2,000**	**3,000**	**2,100**	**2,200**	**1,400**	**1,100**	<500	**500**
Tetrachloroethene	0.7	**3,800**	**2,100**	**2,700**	**1,900**	**2,400**	**25,000**	**1,800**	**1,500**	**1,400**
Toluene	600	<500	<500	NA	ND	<100	<100	**1.9**	<100	<100
1,1,1-Trichloroethane	200	<500	<500	<250	ND	**260**	**220**	**200**	**200**	**160**
Trichloroethene	3	**13,000**	**6,800**	**6,000**	**5,300**	**5,200**	**5,300**	**3,600**	**3,400**	**3,400**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<500	<500	NA	ND	<200	<200	**54**	<200	<200
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	<10	<10	NA	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	20	**53**	**18**	**17**	NA	**22**	**13**	**14**	<10	**13**
1,4-Dichlorobenzene	6	<10	<10	<10	NA	<10	<10	<10	<10	<10
3-Methylphenol/4-Methylphenol	400/40	<10	<10	NA	NA	NA	<10	NA	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Date Sampled:	Standard	6/18/2002	12/4/2002	6/25/2003	12/11/2003	6/23/2004	12/15/2004	6/8/2005	12/12/2005	6/21/2006
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<5,000	<2,500	<2,500	<2,500	<2,500	<5,000	<2,500	<5,000	<5,000
Benzene	1	<500	<100	<100	<100	<100	<200	<100	<200	<200
Carbon Tetrachloride	0.3	<500	<100	<100	<100	<100	<200	<100	<200	<200
Chloroform	70	<500	<100	<100	<100	<100	<200	<100	<200	<200
1,1-Dichloroethane	6	<500	**100**	**120**	**110**	**130**	<200	**100**	<200	<200
1,1-Dichloroethene	350	**1,700**	**2,200**	**1,900**	**1,900**	**2,400**	**2,300**	**2,200**	**1,900**	**2,400**
cis-1,2-Dichloroethene	70	**14,000**	**13,000**	**16,000**	**15,000**	**19,000**	**16,000**	**14,000**	**13,000**	**16,000**
trans-1,2-Dichloroethene	100	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ethylbenzene	600	<500	<100	<100	<100	<100	<200	<100	<200	<200
Methylene Chloride	5	<500	**500**	<500	<500	<500	<1,000	<500	<1,000	<1,000
Tetrachloroethene	0.7	**1,900**	**2,200**	**2,000**	**1,400**	**2,400**	**1,400**	**1,500**	**1,400**	**2,000**
Toluene	600	<500	<100	<100	<100	<100	<200	<100	<200	<200
1,1,1-Trichloroethane	200	<500	**230**	**140**	<100	<100	<200	<100	<200	**260**
Trichloroethene	3	**4,400**	**4,000**	**3,800**	**2,500**	**2,800**	**2,300**	**2,300**	**2,400**	**3,500**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	<200
Xylenes (Total)	500	<500	<200	<200	<200	<200	<400	<200	<400	<400
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	<10	<10	<10	<50	<10	<9.8	<9.4	<9.6
1,2-Dichlorobenzene	20	<10	<10	<10	<10	<50	<10	<9.8	<9.4	<9.6
1,4-Dichlorobenzene	6	<10	<10	<10	<10	<50	<10	<9.8	<9.4	<9.6
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<10	<10	<50	<10	NA	<9.4	<9.6

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11	MW-11
Date Sampled:	Standard	6/23/2008	12/8/2008	6/10/2009	12/29/2009	6/14/2010	12/17/2010	6/21/2011	12/13/2011	5/1/2012
Field Parameters										
Temperature (°C)	NE	20.00	16.12	18.79	17.75	19.07	16.98	18.81	19.16	18.88
pH (standard units)	6.5 - 8.5	4.58	3.86	4.53	4.18	3.65	6.07	5.14	3.82	4.32
Dissolved Oxygen (mg/L)	NE	2.92	1.96	8.29	2.67	1.41	2.00	2.26	3.78	3.76
Specific Conductance (µS/cm)	NE	491	435	405	467	453	202	418	742	450
Oxidation-Reduction Potential (mV)	NE	254	245	183.3	201	167	195.4	191.8	361.0	168.2
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<5,000	<2,500	<1,200	<2,500	<2,500	<25,000	<2500	<2500	<2500
Benzene	1	<200	<100	<50	<100	<100	<100	<100	<100	<100
Carbon Tetrachloride	0.3	<200	<100	<250	<500	<100	<100	<100	<100	<100
Chloroform	70	<200	<100	<250	<500	<100	<100	<100	<100	<100
1,1-Dichloroethane	6	<200	<100	<250	<500	<100	**100**	<100	<100	<100
1,1-Dichloroethene	350	**2,800**	**2,000**	**2,300**	**1,700**	**2,500**	**2,600**	**730**	**2,100**	**2,600**
cis-1,2-Dichloroethene	70	**16,000**	**14,000**	**14,000**	**9,700**	**15,000**	**16,000**	**5,700**	**11,000**	**13,000**
trans-1,2-Dichloroethene	100	<200	<100	<250	<500	<100	<100	<100	<100	<100
Ethylbenzene	600	<200	<100	<250	<500	<100	<100	<100	<100	<100
Methylene Chloride	5	<1,000	<500	<250	<500	<500	<500	<500	<500	<500
Tetrachloroethene	0.7	**3,300**	**2,500**	**2,900**	**1,800**	**3,600**	**3,600**	**1,000**	**4,100**	**5,600**
Toluene	600	<200	<100	<250	<500	<100	<100	<100	<100	<100
1,1,1-Trichloroethane	200	**220**	**170**	<250	<500	**110**	130	<100	**170**	**190**
Trichloroethene	3	**4,800**	**3,900**	**4,100**	**3,000**	**5,500**	**6,300**	**1,800**	**7,900**	**9,200**
Vinyl Chloride	0.03	<200	<100	<250	<500	<100	<100	<100	<100	<100
Xylenes (Total)	500	<400	<200	<500	<1,000	<200	<200	<200	<200	<100
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	**380**	NA	**170 J**	NA	**210**
1,2,4-Trichlorobenzene	70	<9.4	NA	<9.4	NA	<97	NA	<12	NA	<10
1,2-Dichlorobenzene	20	<9.4	NA	<9.4	NA	<97	NA	<12	NA	<10
1,4-Dichlorobenzene	6	<9.4	NA	<9.4	NA	<97	NA	<12	NA	<10
3-Methylphenol/4-Methylphenol	400/40	<9.4	NA	<9.4	NA	<97	NA	<24	NA	<20

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-11	MW-11	MW-11	MW-11	MW-11
Date Sampled:	Standard	12/13/2012	6/19/2013	6/20/2014	6/24/2015	9/22/2016
Field Parameters						
Temperature (°C)	NE	18.57	23.69	18.44	30.96	20.3
pH (standard units)	6.5 - 8.5	4.09	3.90	5.13	4.18	4.06
Dissolved Oxygen (mg/L)	NE	1.59	3.55	12.48	6.24	2.6
Specific Conductance (µS/cm)	NE	451	457	420	343	400
Oxidation-Reduction Potential (mV)	NE	310.0	513.0	204.8	462.6	567
VOCs (USEPA Method 8260B) µg/L						
Acetone	6,000	<2500	<2500	<5000	< 2000	<2000
Benzene	1	<100	<100	<200	< 200	<200
Carbon Tetrachloride	0.3	<100	<100	<200	< 200	<200
Chloroform	70	<100	<100	<200	< 200	<200
1,1-Dichloroethane	6	<100	<100	<200	< 200	<200
1,1-Dichloroethene	350	**2,300**	**2,300**	**2,200**	**1900**	**2,200**
cis-1,2-Dichloroethene	70	**9,900**	**11,000**	**9,700**	**6700**	**7,400**
trans-1,2-Dichloroethene	100	<100	<100	<200	< 200	<200
Ethylbenzene	600	<100	<100	<200	< 200	<200
Methylene Chloride	5	<500	<500	<1000	< 1000	<1000
Tetrachloroethene	0.7	**6,400**	**6,100**	**5,600**	**5300**	**5,700**
Toluene	600	<100	<100	<200	< 200	<200
1,1,1-Trichloroethane	200	**160**	**500**	<200	< 200	<200
Trichloroethene	3	**11,000**	**11,000**	**9,700**	**9400**	**12,000**
Vinyl Chloride	0.03	<100	<100	<200	< 200	<200
Xylenes (Total)	500	<100	<200	<400	< 200	<200
SVOCs (USEPA Method 8270C) µg/L						
1,4-Dioxane	3	NA	**260 J**	NA	NA	**280**
1,2,4-Trichlorobenzene	70	NA	<52	NA	NA	**1.6**
1,2-Dichlorobenzene	20	NA	<52	NA	NA	**2.6**
1,4-Dichlorobenzene	6	NA	<52	NA	NA	**3.1**
3-Methylphenol/4-Methylphenol	400/40	NA	<100	NA	NA	<1.9

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-11D	MW-11D
Date Sampled:	Standard	7/10/2012	6/20/2013
Field Parameters			
Temperature (°C)	NE	20.58	23.38
pH (standard units)	6.5 - 8.5	5.97	6.12
Dissolved Oxygen (mg/L)	NE	5.50	3.93
Specific Conductance (µS/cm)	NE	208	226
Oxidation-Reduction Potential (mV)	NE	-26.0	120
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<50	<50
Carbon Tetrachloride	0.3	<2.0	<2.0
Chloroform	70	**9.2**	**8.0**
1,2-Dichlorobenzene	20	<2.0	<2.0
1,1-Dichloroethane	6	<2.0	<2.0
1,2-Dichloroethane	0.4	<2.0	<2.0
1,1-Dichloroethene	350	**5.4**	**7.2**
cis-1,2-Dichloroethene	70	<2.0	<2.0
1,2-Dichloropropane	0.6	<2.0	<2.0
Ethylbenzene	600	<2.0	<2.0
Methylene Chloride	5	<10	<10
Tetrachloroethene	0.7	**220**	**400**
Toluene	600	<2.0	<2.0
1,1,1-Trichloroethane	200	**2.2**	**8.6**
Trichloroethene	3	**16**	**26**
Vinyl Chloride	0.03	<2.0	<2.0
Xylenes (Total)	500	<4.0	<4.0
SVOCs (USEPA Method 8270C) µg/L			
1,4-Dioxane	3	<1.9	NA
1,2,4-Trichlorobenzene	70	<0.96	NA
1,2-Dichlorobenzene	20	<0.96	NA
1,4-Dichlorobenzene	6	<0.96	NA
2-Methylnaphthalene	30	<0.19	NA
3-Methylphenol/4-Methylphenol	400/40	<1.9	NA
Di-n-butylphthalate	700	<0.96	NA
Naphthalene	6	<0.19	NA
Phenol	30	<0.96	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-11BR * 6/20/2013	MW-11BR 6/20/2013
Field Parameters			
Temperature (°C)	NE	NM	21.13
pH (standard units)	6.5 - 8.5	NM	6.54
Dissolved Oxygen (mg/L)	NE	NM	2.1
Specific Conductance (µS/cm)	NE	NM	311
Oxidation-Reduction Potential (mV)	NE	NM	51
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<250	<250
Carbon Tetrachloride	0.3	<10	<10
Chloroform	70	**11**	<10
1,2-Dichlorobenzene	20	<10	<10
1,1-Dichloroethane	6	<10	<10
1,2-Dichloroethane	0.4	<10	<10
1,1-Dichloroethene	350	**71**	**73**
cis-1,2-Dichloroethene	70	**130**	**89**
1,2-Dichloropropane	0.6	<10	<10
Ethylbenzene	600	<10	<10
Methylene Chloride	5	<50	<50
Tetrachloroethene	0.7	**880**	**990**
Toluene	600	<10	<10
1,1,1-Trichloroethane	200	<10	<10
Trichloroethene	3	**450**	**650**
Vinyl Chloride	0.03	<10	<10
Xylenes (Total)	500	<20	<20
SVOCs (USEPA Method 8270C) µg/L			
1,4-Dioxane	3	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA
1,2-Dichlorobenzene	20	NA	NA
1,4-Dichlorobenzene	6	NA	NA
2-Methylnaphthalene	30	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA
Diethylphthalate	6,000	NA	NA
Di-n-butylphthalate	700	NA	NA
Naphthalene	6	NA	NA
Phenol	30	NA	NA

Notes:

* Groundwater sample was collected from a depth interval of 147 to 154 ft bgs in the open boring prior to well installation

Additional notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12	MW-12
Date Sampled:	Standard	9/26/1996	12/16/1999	4/10/2007	6/25/2008	6/14/2010	6/20/2011	4/30/2012	6/19/2013	12/9/2013
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	21.35	20.11	17.29	19.78	21.08	17.79
pH (standard units)	6.5 - 8.5	NR	NR	NR	6.91	5.01	4.05	4.67	5.17	5.10
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	6.31	2.88	1.95	7.19	5.40	7.44
Specific Conductance (µS/cm)	NE	NR	NR	NR	65	63	289	67	72	668
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	211	2.2	191.9	259.5	312.0	-33.6
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<50	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1	<5	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	0.3	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	70	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<1	<1	**7.3**	<1.0	<1.0	<1.0	<1.0	<1.0	**1.8**
cis-1,2-Dichloroethene	70	<1	<1	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	<5	<1	**130**	**9.5**	**18**	**11**	**13**	**12**	**20**
Toluene	600	<5	<1	**3.1**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<5	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	<5	<1	**66**	**7.9**	**10**	**17**	**22**	**24**	**33**
Vinyl Chloride	0.03	NA	NA	NA	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<10	<2	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L										
1,2,4-Trichlorobenzene	70	<10	NA	<10	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	<10	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	<10	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	<10	NA	<10	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-12 6/19/2014	MW-12 12/19/2014	MW-12 6/24/2015	MW-12 12/10/2015	MW-12 9/22/2016
Field Parameters						
Temperature (°C)	NE	19.34	16.87	21.20	20.69	22.8
pH (standard units)	6.5 - 8.5	5.29	4.93	5.63	6.70	5.30
Dissolved Oxygen (mg/L)	NE	12.02	9.16	5.87	0.92	4.4
Specific Conductance (µS/cm)	NE	78	72	77	143	55
Oxidation-Reduction Potential (mV)	NE	131.0	193	194	88.5	268
VOCs (USEPA Method 8260B) µg/L						
Acetone	6,000	<25	<10	<10	<10	<10
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	70	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	**1.4**	**1.9**	**1.4**	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**17**	**18**	**13**	**160**	**9.3**
Toluene	600	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	**37**	**47**	**32**	**4.5**	**21**
Vinyl Chloride	0.03	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<2.0	<2.0	<1.0	<1.0	<1.0
SVOCs (USEPA Method 8270C) µg/L						
1,2,4-Trichlorobenzene	70	<1.1	NA	<9.5	NA	NA
1,2-Dichlorobenzene	20	<1.1	NA	<9.5	NA	NA
1,4-Dichlorobenzene	6	<1.1	NA	<9.5	NA	NA
3-Methylphenol/4-Methylphenol	400/40	<2.2	NA	<9.5	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D
Date Sampled:	Standard	9/26/1996	6/25/1998	1/15/1999	6/10/1999	12/16/1999	6/21/2000	12/19/2000	6/5/2001	12/13/2001	6/17/2002
Field Parameters											
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L											
Acetone	6,000	<50	<50	<100	<25	<25	<25	NA	<25	<25	<100
Benzene	1	<5	<5	<10	<1	<1	<1	<1	<1	<1	<10
Carbon Tetrachloride	0.3	<5	<5	<10	<1	<1	<1	NA	<1	<1	<10
Chloroform	70	<5	<5	<10	**2**	**2.3**	**1.9**	**2**	**2.3**	**1.9**	<10
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	350	**8.5**	**5.8**	**10**	**7.6**	**11**	**8.6**	**10**	**13**	**12**	<10
cis-1,2-Dichloroethene	70	<5	<5	<10	<1	<1	<1	<1	<1	<1	<10
Ethylbenzene	600	<5	<5	<10	<1	<1	<1	NA	<1	<1	<10
Methylene Chloride	5	<5	<5	<10	<1	<5	<5	<5	<5	<5	<10
Tetrachloroethene	0.7	**120**	**100**	**180**	**110**	**170**	**150**	**170**	**180**	**180**	**160**
Toluene	600	<5	<5	NA	ND	<1	<1	<1	<1	<1	<10
1,1,1-Trichloroethane	200	<5	<5	<10	<1	<1	<1	<1	<1	<1	<10
Trichloroethene	3	**12**	**18**	**50**	**49**	**86**	**77**	**96**	**130**	**140**	**130**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<5	<5	NA	ND	<2	<2	<2	<2	<2	<10
SVOCs (USEPA Method 8270C) µg/L											
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	20	<10	<10	NA	NA	NA	<10	<10	<10	<10	<10
1,4-Dichlorobenzene	6	<10	<10	<10	NA	NA	<10	<10	<10	<10	<10
3-Methylphenol/4-Methylphenol	400/40	<10	<10	NA	NA	NA	<10	NA	<10	<10	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D
Date Sampled:	Standard	12/4/2002	6/25/2003	12/10/2003	6/23/2004	12/15/2004	6/7/2005	12/12/2005	6/21/2006	12/7/2006	4/10/2007
Field Parameters											
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L											
Acetone	6,000	<50	<25	<25	<25	<25	<25	<4	<130	<130	<250
Benzene	1	<2	<1	<1	<1	<1	<1	<4	<5	<5	<10
Carbon Tetrachloride	0.3	<2	<1	<1	<1	<1	<1	<4	<5	<5	<10
Chloroform	70	**2.3**	**1.6**	<1	**2.2**	<1	<1	<4	<5	<5	<10
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	350	**11**	**9.5**	**3.8**	**16**	**8.1**	<1	<4	**35**	**66**	**120**
cis-1,2-Dichloroethene	70	<2	<1	<1	**1.8**	**44**	<1	**14**	**9.7**	**13**	<10
Ethylbenzene	600	<2	<1	<1	<1	<1	<1	<4	<5	<5	<10
Methylene Chloride	5	<10	<5	<5	<5	<5	<5	<4	<25	<25	<50
Tetrachloroethene	0.7	**200**	**150**	**52**	**250**	**72**	**4.8**	**140**	**290**	**320**	**770**
Toluene	600	<2	<1	<1	<1	<1	<1	<4	<5	<5	**11**
1,1,1-Trichloroethane	200	<2	<1	<1	<1	<1	<1	<4	<5	**380**	<10
Trichloroethene	3	**170**	**180**	**70**	**320**	**110**	**8.8**	**360**	**740**	**930**	**440**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	<5	<5	<10
Xylenes (Total)	500	<2	<2	<2	<2	<2	<2	<4	<10	<10	<20
SVOCs (USEPA Method 8270C) µg/L											
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	<10	<10	<10	<10	<9.3	<9.4	<9.3	<9.7	<10
1,2-Dichlorobenzene	20	<10	<10	<10	<10	<10	<9.3	<9.4	<9.3	<9.7	<10
1,4-Dichlorobenzene	6	<10	<10	<10	<10	<10	<9.3	<9.4	<9.3	<9.7	<10
3-Methylphenol/4-Methylphenol	400/40	<10	<10	<10	<10	<10	NA	<9.4	NA	<9.7	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D
Date Sampled:	Standard	12/13/2007	6/25/2008	12/8/2008	6/9/2009	12/29/2009	6/14/2010	12/17/2010	6/20/2011	12/13/2011	4/30/2012
Field Parameters											
Temperature (°C)	NE	19.35	20.55	13.50	22.05	17.87	21.51	17.43	19.16	18.85	19.88
pH (standard units)	6.5 - 8.5	6.86	8.22	5.99	6.38	6.65	6.44	6.43	7.13	9.49	9.32
Dissolved Oxygen (mg/L)	NE	3.48	1.32	3.39	3.73	4.28	0.61	1.51	3.24	3.14	2.18
Specific Conductance (µS/cm)	NE	216	110	113	98	124	104	592	125	259	173
Oxidation-Reduction Potential (mV)	NE	44	150	115	77.2	81	-65.4	201.4	73.7	46	149.4
VOCs (USEPA Method 8260B) µg/L											
Acetone	6,000	<130	<50	<120	<120	<120	<120	<25	<130	<130	<500
Benzene	1	<5.0	<2.0	<5.0	<5.0	<5.0	<5.0	<1.0	<5.0	<5.0	<20
Carbon Tetrachloride	0.3	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	<5.0	<20
Chloroform	70	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	**2.2**	<20
1,2-Dichlorobenzene	20	NA	NA	NA	NA	<25	<5.0	<1.0	<5.0	<1.0	<20
1,1-Dichloroethene	350	**51**	**21**	**21**	**25**	**39**	**34**	<1.0	**76 J**	**49**	**69**
cis-1,2-Dichloroethene	70	**13**	**7.4**	**13**	<25	<25	**20**	<1.0	**42 J**	**31**	**50**
Ethylbenzene	600	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	<1.0	<20
Methylene Chloride	5	<25	<10	<25	<25	<25	<25	<5.0	<25	<5.0	<100
Tetrachloroethene	0.7	**340**	**190**	**140**	**170**	**220**	**250**	**6.8**	**330**	**230**	**280**
Toluene	600	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	<1.0	<20
1,1,1-Trichloroethane	200	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	<1.0	<20
Trichloroethene	3	**1,100**	**500**	**470**	**520**	**780**	**870**	**7.7**	**1,500 J**	**970**	**1,200**
Vinyl Chloride	0.03	<5.0	<2.0	<5.0	<25	<25	<5.0	<1.0	<5.0	<1.0	<20
Xylenes (Total)	500	<10	<4.0	<10	<50	<50	<10	<2.0	<10	<2.0	<40
SVOCs (USEPA Method 8270C) µg/L											
1,4-Dioxane	3	NA	NA	NA	NA	NA	**53**	NA	**120 J**	NA	**61**
1,2,4-Trichlorobenzene	70	NA	<9.4	NA	<9.4	NA	<9.5	NA	<11	NA	<10
1,2-Dichlorobenzene	20	NA	<9.4	NA	<9.4	NA	<9.5	NA	<11	NA	<10
1,4-Dichlorobenzene	6	NA	<9.4	NA	<9.4	NA	<9.5	NA	<11	NA	<10
3-Methylphenol/4-Methylphenol	400/40	NA	<9.4	NA	<19	NA	<9.5	NA	<23	NA	<21

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-12D	MW-12D	MW-12D	MW-12D	MW-12D
Date Sampled:	Standard	12/12/2012	6/19/2013	6/19/2014	6/24/2015	9/22/2016
Field Parameters						
Temperature (°C)	NE	19.93	22.37	19.89	24.60	21.4
pH (standard units)	6.5 - 8.5	6.74	6.68	6.18	6.60	6.33
Dissolved Oxygen (mg/L)	NE	1.40	4.19	10.01	3.84	3.7
Specific Conductance (µS/cm)	NE	214	211	220	236	183
Oxidation-Reduction Potential (mV)	NE	122	237	149.1	108.2	198
VOCs (USEPA Method 8260B) µg/L						
Acetone	6,000	<500	<500	<1300	< 500	<500
Benzene	1	<20	<20	<50	< 50	<50
Carbon Tetrachloride	0.3	<20	<20	<50	< 50	<50
Chloroform	70	<20	<20	<50	< 50	<50
1,2-Dichlorobenzene	20	<20	<20	<50	< 50	<50
1,1-Dichloroethene	350	**130**	**110**	**160**	**230**	**280**
cis-1,2-Dichloroethene	70	**99**	**110**	**160**	**230**	**350**
Ethylbenzene	600	<20	<20	<50	< 50	<50
Methylene Chloride	5	<100	<100	<220	< 250	<250
Tetrachloroethene	0.7	**600**	**490**	**650**	**620**	**880**
Toluene	600	<20	<20	<50	< 50	<50
1,1,1-Trichloroethane	200	<20	<20	<50	< 50	<50
Trichloroethene	3	**3,100**	**2,600**	**2,800**	**3,500**	**5,100**
Vinyl Chloride	0.03	<20	<20	<50	< 50	<50
Xylenes (Total)	500	<40	<40	<100	< 50	<50
SVOCs (USEPA Method 8270C) µg/L						
1,4-Dioxane	3	NA	**410 J**	**410 J**	**390 J**	**530**
1,2,4-Trichlorobenzene	70	NA	<50	<50	< 95	<0.96
1,2-Dichlorobenzene	20	NA	<50	<50	< 95	**1.5**
1,4-Dichlorobenzene	6	NA	<50	<50	< 95	<0.19
3-Methylphenol/4-Methylphenol	400/40	NA	<99	<99	< 95	<1.9

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13	MW-13
Date Sampled:	Standard	6/25/1998	6/10/1999	12/15/1999	6/21/2000	6/5/2001	6/25/2003	6/23/2004	6/7/2005	6/21/2006	4/9/2007	6/24/2008
Field Parameters												
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	17.73
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	5.41
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	4.43
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	74
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	230
VOCs (USEPA Method 8260B) µg/L												
Acetone	6,000	<50	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25
Benzene	1	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.3	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	70	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<25	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
Methylene Chloride	5	<5.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5.0
Tetrachloroethene	0.7	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Toluene	600	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	<5.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<1.0
Xylenes (Total)	500	<5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L												
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	<10	<10	<10	<10	<9.5	<9.5	<10	NA
1,2-Dichlorobenzene	20	<10	NA	NA	<10	<10	<10	<10	<9.5	<9.5	<10	NA
1,4-Dichlorobenzene	6	<10	NA	NA	<10	<10	<10	<10	<9.5	<9.5	<10	NA
3-Methylphenol/4-Methylphenol	400/40	<10	NA	NA	<10	<10	<10	<10	NA	NA	<10	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-13	MW-13	MW-13	MW-13
Date Sampled:	Standard	6/9/2009	6/14/2010	5/1/2012	6/18/2013
Field Parameters					
Temperature (°C)	NE	17.82	18.10	17.78	18.23
pH (standard units)	6.5 - 8.5	4.56	4.02	4.70	4.00
Dissolved Oxygen (mg/L)	NE	14.7	2.39	5.75	4.45
Specific Conductance (µS/cm)	NE	950	50	54	54
Oxidation-Reduction Potential (mV)	NE	177.9	54	96.0	384
VOCs (USEPA Method 8260B) µg/L					
Acetone	6,000	<25	<25	<25	<25
Benzene	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<25	<10	<10	<10
Carbon Tetrachloride	0.3	<5.0	<1.0	<1.0	<1.0
Chloroform	70	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<5.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<5.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<5.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<5.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<25	<10	<10	<10
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	<5.0	<1.0	<1.0	<1.0
Toluene	600	<5.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<5.0	<1.0	<1.0	<1.0
Trichloroethene	3	<5.0	<1.0	<1.0	<1.0
Vinyl Chloride	0.03	<5.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<10	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L					
1,4-Dioxane	3	NA	<9.5	<2.0	NA
1,2,4-Trichlorobenzene	70	<9.4	<9.5	<0.98	NA
1,2-Dichlorobenzene	20	<9.4	<9.5	<0.98	NA
1,4-Dichlorobenzene	6	<9.4	<9.5	<0.98	NA
3-Methylphenol/4-Methylphenol	400/40	<9.4	<9.5	<2.0	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-14	MW-14
Date Sampled:	Standard	12/15/1999	4/9/2007
Field Parameters			
Temperature (°C)	NE	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<25	<25
Benzene	1	<1	<1
2-Butanone (MEK)	4,000	<10	<10
Carbon Tetrachloride	0.3	<1	<1
Chloroform	70	<1	<1
1,1-Dichloroethane	6	<1	<1
1,1-Dichloroethene	350	<1	<1
cis-1,2-Dichloroethene	70	<1	<1
Ethylbenzene	600	<1	<1
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10
Methylene Chloride	5	<5	<5
Tetrachloroethene	0.7	<1	<1
Toluene	600	<1	<1
1,1,1-Trichloroethane	200	<1	<1
Trichloroethene	3	**1.3**	<1
Vinyl Chloride	0.03	NA	NA
Xylenes (Total)	500	<2	<2
SVOCs (USEPA Method 8270C) µg/L			
1,2,4-Trichlorobenzene	70	NA	<10
1,2-Dichlorobenzene	20	NA	<10
1,4-Dichlorobenzene	6	NA	<10
3-Methylphenol/4-Methylphenol	400/40	NA	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-14D	MW-14D
Date Sampled:	Standard	12/15/1999	4/9/2007
Field Parameters			
Temperature (°C)	NE	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR
VOCS (USEPA Method 8260B) µg/L			
Acetone	6,000	<25	<25
Benzene	1	<1	<1
2-Butanone (MEK)	4,000	<10	<10
Carbon Tetrachloride	0.3	<1	<1
Chloroform	70	<1	<1
1,1-Dichloroethane	6	<1	<1
1,1-Dichloroethene	350	<1	<1
cis-1,2-Dichloroethene	70	<1	<1
Ethylbenzene	600	<1	<1
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10
Methylene Chloride	5	<5	<5
Tetrachloroethene	0.7	<1	<1
Toluene	600	<1	<1
1,1,1-Trichloroethane	200	<1	<1
Trichloroethene	3	<1	<1
Vinyl Chloride	0.03	NA	NA
Xylenes (Total)	500	<2	<2
SVOCs (USEPA Method 8270C) µg/L			
1,2,4-Trichlorobenzene	70	NA	<10
1,2-Dichlorobenzene	20	NA	<10
1,4-Dichlorobenzene	6	NA	<10
3-Methylphenol/4-Methylphenol	400/40	NA	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-15 12/15/1999	MW-15 4/10/2007
Field Parameters			
Temperature (°C)	NE	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<25	<25
Benzene	1	<1	<1
2-Butanone (MEK)	4,000	<10	<10
Carbon Tetrachloride	0.3	<1	<1
Chloroform	70	<1	**39**
1,1-Dichloroethane	6	<1	<1
1,1-Dichloroethene	350	<1	**4.9**
cis-1,2-Dichloroethene	70	<1	**1.4**
Ethylbenzene	600	<1	<1
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10
Methylene Chloride	5	<5	<5
Tetrachloroethene	0.7	<1	**120**
Toluene	600	<1	**2**
1,1,1-Trichloroethane	200	<1	<1
Trichloroethene	3	<1	**41**
Vinyl Chloride	0.03	NA	NA
Xylenes (Total)	500	<2	<2
SVOCs (USEPA Method 8270C) µg/L			
1,2,4-Trichlorobenzene	70	NA	<10
1,2-Dichlorobenzene	20	NA	<10
1,4-Dichlorobenzene	6	NA	<10
2,4-Dimethylphenol	140	NA	NA
2-Methylphenol	NS	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Date Sampled:	Standard	6/25/1998	6/11/1999	12/14/1999	6/22/2000	6/6/2001	6/18/2002	6/25/2003	6/23/2004	6/8/2005
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<25,000	<12,000	<5,000	<25,000	<25,000	<50,000	<25,000	<12,000	<1,300
Benzene	1	<2,500	<500	<200	<1,000	<500	<5,000	<500	<500	<50
Carbon Tetrachloride	0.3	<2,500	<500	<200	<1,000	<500	<5,000	<500	**140**	<50
Chloroform	70	<2,500	<500	<200	<1,000	<500	<5,000	<500	130	<50
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<2,500	<500	<200	<1,000	<500	<5,000	<500	<500	<50
1,1-Dichloroethene	350	<2,500	<500	**900**	<1,000	<500	<5,000	<500	**88**	<50
cis-1,2-Dichloroethene	70	NA	<500	<200	<1,000	<500	<5,000	<500	<500	<50
Ethylbenzene	600	<2,500	<500	<200	<1,000	<500	<5,000	<500	<500	<50
Methylene Chloride	5	<2,500	<500	<1,000	<5,000	<5,000	<5,000	<5,000	<500	<250
Tetrachloroethene	0.7	**67,000**	**73,000**	**100,000**	**170,000**	**65,000**	**93,000**	**78,000**	**36,000**	**8,200**
Toluene	600	<2,500	**2,600**	**3,700**	**4,000**	**1,400**	<5,000	<500	<500	<50
1,1,1-Trichloroethane	200	**6,400**	**15,000**	**32,000**	**26,000**	**7,400**	<5,000	<500	820	<50
Trichloroethene	3	**5,400**	**8,600**	**19,000**	**15,000**	**4,300**	<5,000	<500	**640**	**58**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<2,500	<5,000	**540**	<2,000	<1,000	<10,000	<1,000	<1,000	<50
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**19**	NA	NA	**84**	**58**	**28**	<10	<50	<9.5
1,2-Dichlorobenzene	20	<10	NA	NA	**26**	**24**	**15**	**11**	<50	<9.5
2,4-Dimethylphenol	100	NA	NA	NA	**41**	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	**68**	NA	NA	**160**	**100**	**44**	<10	<50	NA
Di-n-butylphthalate	700	NA	NA	NA	**45**	**44**	**21**	**11**	<50	<9.5
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.3	NA	NA	NA	NA	**14**	<50	<50	<250	<48
Phenol	30	NA	NA	NA	**30**	**21**	**11**	<10	<50	<9.5

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Date Sampled:	Standard	6/21/2006	4/10/2007	12/13/2007	6/24/2008	12/8/2008	6/10/2008	12/29/2009	6/14/2010
Field Parameters									
Temperature (°C)	NE	NR	NR	16.71	18.91	15.08	15.37	13.74	14.41
pH (standard units)	6.5 - 8.5	NR	NR	4.12	4.98	3.82	4.76	4.68	4.32
Dissolved Oxygen (mg/L)	NE	NR	NR	3.21	0.84	1.37	8.85	0.73	0.36
Specific Conductance (µS/cm)	NE	NR	NR	246	215	202	159	197	160
Oxidation-Reduction Potential (mV)	NE	NR	NR	315	225	191	126.2	174	27.3
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<5,000	<130	<5,000	<5,000	<12,000	<12,000	<25,000	<25,000
Benzene	1	<200	<5	<200	<200	<500	<500	<1,000	<500
Carbon Tetrachloride	0.3	<200	<5	<200	<200	<500	<2,500	<5,000	<1,000
Chloroform	70	<200	<5	<200	<200	<500	<2,500	<5,000	<1,000
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	<5,000	<1,000
1,1-Dichloroethane	6	<200	<5	<200	<200	<500	<2,500	<5,000	<1,000
1,1-Dichloroethene	350	<200	<5	<200	<200	<500	<2,500	<5,000	<1,000
cis-1,2-Dichloroethene	70	<200	**70**	<200	<200	<500	<2,500	<5,000	<1,000
Ethylbenzene	600	<200	<5	<200	<200	<500	<2,500	<5,000	<1,000
Methylene Chloride	5	<1,000	<25	<1,000	<1,000	<2,500	<2,500	<5,000	<5000
Tetrachloroethene	0.7	**27,000**	**140,000**	**47,000**	**41,000**	**44,000**	**110,000 J**	**25,000**	**69,000**
Toluene	600	<200	**6.9**	<200	<200	<500	<2,500	<5,000	<1,000
1,1,1-Trichloroethane	200	<200	**31**	<200	<200	<500	<2,500	<5,000	<1,000
Trichloroethene	3	**480**	**250**	**370**	**340**	<500	<2,500	<5,000	<1,000
Vinyl Chloride	0.03	NA	NA	<200	<200	<500	<2,500	<5,000	<1,000
Xylenes (Total)	500	<400	<10	<400	<400	<1,000	<5,000	<10,000	<2,000
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	<9.4
1,2,4-Trichlorobenzene	70	<9.8	<10	NA	<9.4	NA	**20**	NA	**11**
1,2-Dichlorobenzene	20	<9.8	<10	NA	<9.4	NA	**29**	NA	**17**
2,4-Dimethylphenol	100	NA	NA	NA	<9.4	NA	NA	NA	<9.4
3-Methylphenol/4-Methylphenol	400/40	NA	<10	NA	<9.4	NA	**13**	NA	<9.4
Di-n-butylphthalate	700	<9.8	<10	NA	<9.4	NA	<9.4	NA	<9.4
Naphthalene	6	NA	<10	NA	<9.4	NA	<9.4	NA	<9.4
Pentachlorophenol	0.3	<49	<50	NA	<47	NA	<47	NA	<47
Phenol	30	<9.8	<10	NA	<9.4	NA	<9.4	NA	<9.4

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16	MW-16
Date Sampled:	Standard	12/17/2010	6/21/2011	12/10/2013	6/20/2014	12/18/2014	6/24/2015	12/10/2015	9/22/2016
Field Parameters									
Temperature (°C)	NE	17.22	18.01	13.63	16.08	14.72	17.2	16.44	23.0
pH (standard units)	6.5 - 8.5	6.82	5.28	4.46	4.82	3.57	4.59	4.89	4.54
Dissolved Oxygen (mg/L)	NE	0.25	1.95	1.69	5.52	2.55	1.39	5.65	2.3
Specific Conductance (µS/cm)	NE	91	204	149	134	157	151	155	114
Oxidation-Reduction Potential (mV)	NE	101.9	300.1	-63.1	149.4	273	223.8	225.7	243
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<2,5000	<25000	<25000	<25000	<10,000	< 10000	< 10000	< 10000
Benzene	1	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Carbon Tetrachloride	0.3	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Chloroform	70	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
1,2-Dichlorobenzene	20	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
1,1-Dichloroethane	6	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
1,1-Dichloroethene	350	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
cis-1,2-Dichloroethene	70	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Ethylbenzene	600	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Methylene Chloride	5	<5,000	<5000	<5000	<5000	<5,000	< 5000	< 5000	< 5000
Tetrachloroethene	0.7	**67,000**	**49,000**	**84,000**	**57,000**	**59,000**	**65,000**	**99,000**	**53,000**
Toluene	600	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
1,1,1-Trichloroethane	200	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Trichloroethene	3	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Vinyl Chloride	0.03	<1,000	<1000	<1000	<1000	<1,000	< 1000	< 1000	< 1000
Xylenes (Total)	500	<2,000	<2000	<2000	<2000	<2,000	< 1000	< 1000	< 1000
SVOCs (USEPA Method 8270C) µg/L									
1,4-Dioxane	3	NA	<2.2	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	**9.0**	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	**11**	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100	NA	<9.4	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	**4.2**	NA	NA	NA	NA	NA	NA
Di-n-butylphthalate	700	NA	**2.1**	NA	NA	NA	NA	NA	NA
Naphthalene	6	NA	<0.22	NA	NA	NA	NA	NA	NA
Pentachlorophenol	0.3	NA	**6.8**	NA	NA	NA	NA	NA	NA
Phenol	30	NA	<1.1	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D
Date Sampled:	Standard	9/25/1996	6/25/1998	1/15/1999	6/10/1999	12/14/1999	6/21/2000	12/19/2000	6/5/2001	12/14/2001
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<500	<1,000	<500	<250	<250	<250	NA	<250	<250
Benzene	1	<50	<100	<50	<10	<10	<10	<10	<10	<10
Carbon Tetrachloride	0.3	<50	<100	<50	<10	<10	<10	NA	<10	<10
Chloroform	70	<50	<100	<50	<10	<10	<10	<10	<10	<10
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	350	**70**	<100	<50	**45**	**54**	**46**	**130**	**64**	**87**
cis-1,2-Dichloroethene	70	<50	<100	<50	**12**	**11**	**12**	**17**	**14**	**13**
Ethylbenzene	600	<50	<100	<50	<10	<10	<10	NA	<10	<10
Methylene Chloride	5	<50	<100	<50	<10	<50	<50	<50	<50	<50
Tetrachloroethene	0.7	**1,400**	**1,500**	**1,100**	**910**	**1,200**	**1,000**	**1,800**	**1,400**	**1,200**
Toluene	600	<50	<100	<50	<10	<10	<10	<10	<10	<10
1,1,1-Trichloroethane	200	<50	<100	<50	<10	<10	<10	<10	<10	<10
Trichloroethene	3	**510**	**560**	**400**	**400**	**470**	**400**	**720**	**640**	**630**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<100	<100	<100	<20	<20	<20	<20	<20	<20
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	<10	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D
Date Sampled:	Standard	6/18/2002	12/4/2002	6/25/2003	12/10/2003	6/23/2004	12/16/2004	6/7/2005	12/12/2005	6/21/2006
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<1,000	<5,000	<500	<250	<250	<500	<250	<500	<500
Benzene	1	<100	<200	<20	<10	<10	<20	<10	<20	**38**
Carbon Tetrachloride	0.3	<100	<200	<20	<10	<10	<20	<10	<20	<20
Chloroform	70	<100	<200	<20	<10	<10	<20	<10	<20	<20
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethene	350	**130**	<200	**120**	**59**	**170**	**120**	**47**	**91**	**120**
cis-1,2-Dichloroethene	70	<100	<200	**25**	**13**	**32**	**25**	**19**	**35**	**68**
Ethylbenzene	600	<100	<200	<20	<10	<10	<20	<10	<20	<20
Methylene Chloride	5	<100	<1,000	<20	<50	<50	<100	<50	<100	<100
Tetrachloroethene	0.7	**2,200**	**2,100**	**2,000**	**1,200**	**2,400**	**2,200**	**760**	**1,500**	**1,900**
Toluene	600	<100	<200	<20	<10	<10	<20	<10	<20	<20
1,1,1-Trichloroethane	200	<100	<200	<20	<10	<10	<20	<10	<20	<20
Trichloroethene	3	**970**	**1,000**	**1,000**	**560**	**1,100**	**960**	**400**	**930**	**1,100**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<200	<400	<40	<20	<20	<40	<20	<40	56
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	<10	NA	NA	<10	NA	<10	NA
1,2-Dichlorobenzene	20	NA	NA	<10	NA	NA	<10	NA	<10	NA
1,4-Dichlorobenzene	6	NA	NA	<10	NA	NA	<10	NA	<10	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA	<10	NA	NA	<10	NA	<10	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D
Date Sampled:	Standard	12/7/2006	4/10/2007	12/13/2007	6/25/2008	12/8/2008	6/9/2009	12/29/2009	6/14/2010	12/17/2010
Field Parameters										
Temperature (°C)	NE	NR	NR	19.73	23.61	18.05	21.94	17.42	22.40	17.76
pH (standard units)	6.5 - 8.5	NR	NR	5.86	6.10	6.59	5.90	7.63	5.92	6.27
Dissolved Oxygen (mg/L)	NE	NR	NR	1.87	2.76	1.67	4.69	1.89	1.12	3.71
Specific Conductance (µS/cm)	NE	NR	NR	142	139	128	128	142	136	208
Oxidation-Reduction Potential (mV)	NE	NR	NR	112	132	118	102.3	95	-38.7	206.1
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<250	<500	<500	<500	<500	<500	<500	<500	<500
Benzene	1	<10	<20	<20	<20	<20	<20	<20	<20	<20
Carbon Tetrachloride	0.3	<10	<20	<20	<20	<20	<100	<100	<20	<20
Chloroform	70	<10	<20	<20	<20	<20	<100	<100	<20	<20
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	<100	<20	<20
1,1-Dichloroethene	350	**240**	**170**	**150**	**130**	**110**	**160**	**130**	**140**	**150**
cis-1,2-Dichloroethene	70	**52**	**76**	**95**	**110**	**120**	**180**	**150**	**220**	**270**
Ethylbenzene	600	<10	<20	<20	<20	<20	<100	<100	<20	<20
Methylene Chloride	5	**80**	<100	<100	<100	<100	<100	<100	<100	<100
Tetrachloroethene	0.7	**1,900**	**2,400**	**2,200**	**2,400**	**2,100**	**2,700**	**2,000**	**2,600**	**3,000**
Toluene	600	<10	<20	<20	<20	<20	<100	<100	<20	<20
1,1,1-Trichloroethane	200	<10	<20	<20	<20	<20	<100	<100	<20	<20
Trichloroethene	3	**1,100**	**1,400**	**1,300**	**1,400**	**1,200**	**1,500**	**1,200**	**1,500**	**1,800**
Vinyl Chloride	0.03	NA	NA	<20	<20	<20	<100	<100	<20	<20
Xylenes (Total)	500	<20	<40	<40	<40	<40	<200	<200	<40	<40
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	<10	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	<10	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	<10	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	<10	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D	MW-17D
Date Sampled:	Standard	6/20/2011	12/13/2011	5/1/2012	12/12/2012	6/18/2013	12/10/2013	6/20/2014	12/17/2014	6/24/2015	12/10/2015
Field Parameters											
Temperature (°C)	NE	19.91	14.48	19.91	19.54	20.81	18.41	21.37	18.37	22.90	20.02
pH (standard units)	6.5 - 8.5	6.94	5.79	5.72	5.65	5.34	5.75	5.78	4.87	5.81	5.82
Dissolved Oxygen (mg/L)	NE	2.28	5.30	2.09	1.16	1.48	1.83	4.95	1.57	1.68	1.87
Specific Conductance (µS/cm)	NE	176	290	150	162	166	153	171	169	184	104
Oxidation-Reduction Potential (mV)	NE	128.3	269.0	131.2	204.0	250.0	-98.3	122.2	176	150.6	171.9
VOCs (USEPA Method 8260B) µg/L											
Acetone	6,000	<130 J	<500	<500	<500	<500	<500	<630	<250	< 250	< 250
Benzene	1	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
Carbon Tetrachloride	0.3	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
Chloroform	70	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
1,2-Dichlorobenzene	20	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
1,1-Dichloroethene	350	**130 J**	**120**	**140**	**130**	**110**	**130**	**96**	**100**	**110**	**100**
cis-1,2-Dichloroethene	70	**270 J**	**230**	**270**	**240**	**230**	**270**	**240**	**200**	**240**	**240**
Ethylbenzene	600	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
Methylene Chloride	5	<25 J	<100	<100	<100	<100	<100	<130	<130	< 130	< 130
Tetrachloroethene	0.7	**2,300 J**	**2,100**	**2,400**	**2,700**	**2,100**	**2,000**	**1,900**	**2,000**	**2,200**	**2,300**
Toluene	600	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
1,1,1-Trichloroethane	200	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
Trichloroethene	3	**2,000 J**	**1,400**	**1,500**	**1,600**	**1,200**	**1,200**	**970**	**990**	**1,000**	**1,100**
Vinyl Chloride	0.03	<5.0 J	<20	<20	<20	<20	<20	<25	<25	< 25	< 25
Xylenes (Total)	500	<10 J	<40	<40	<40	<40	<40	<50	<50	< 25	< 25
SVOCs (USEPA Method 8270C) µg/L											
1,4-Dioxane	3	NA	NA	**140**	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	<10	NA	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA	<21	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

NCAC 2L Standard 0	NCAC 2L Standard	MW-17D 9/22/2016
Field Parameters		
Temperature (°C)	NE	22.4
pH (standard units)	6.5 - 8.5	5.68
Dissolved Oxygen (mg/L)	NE	1.3
Specific Conductance (µS/cm)	NE	160
Oxidation-Reduction Potential (mV)	NE	223
VOCs (USEPA Method 8260B) µg/L		
Acetone	6,000	<250
Benzene	1	<250
Carbon Tetrachloride	0	<25
Chloroform	70	<25
1,2-Dichlorobenzene	20	<25
1,1-Dichloroethene	350	**100**
cis-1,2-Dichloroethene	70	**270**
Ethylbenzene	600	<25
Methylene Chloride	5	<130
Tetrachloroethene	1	**3,000**
Toluene	600	<25
1,1,1-Trichloroethane	200	<25
Trichloroethene	3	**1,400**
Vinyl Chloride	0	<25
Xylenes (Total)	500	<25
SVOCs (USEPA Method 8270C) µg/L		
1,4-Dioxane	3	NA
1,2,4-Trichlorobenzene	70	NA
1,2-Dichlorobenzene	20	NA
1,4-Dichlorobenzene	6	NA
3-Methylphenol/4-Methylphenol	400/40	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Date Sampled:	Standard	6/25/1998	6/10/1999	12/15/1999	6/21/2000	6/5/2001	6/18/2002	6/25/2003	6/23/2004	12/16/2004
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	NA	ND	<25	<25	<25	<50	<25	<25	<25
Benzene	1	NA	ND	<1	<1	<1	<5	<1	<1	<1
2-Butanone (MEK)	4,000	<25	ND	<10	<10	<10	<25	<10	<10	<10
Carbon Tetrachloride	0.3	NA	ND	<1	<1	<1	<5	<1	<1	<1
Chloroform	70	<5	ND	<1	<1	<1	<5	<1	<1	<1
1,1-Dichloroethane	6	<5	ND	<1	<1	<1	<5	<1	<1	<1
1,2-Dichloroethane	0.4	NA	NA	NA	<1	<1	<5	**3.8**	<1	<1
1,1-Dichloroethene	350	<5	ND	<1	<1	<1	<5	<1	<1	<1
cis-1,2-Dichloroethene	70	<5	ND	<1	<1	<1	<5	<1	<1	<1
Ethylbenzene	600	NA	ND	<1	<1	<1	<5	<1	<1	<1
Methyl Isobutyl Ketone (MIBK)	NE	NA	ND	<10	<10	<10	<25	<10	<10	<10
Methylene Chloride	5	<5	ND	<5	<5	<5	<5	<5	**1.1**	<5
Tetrachloroethene	0.7	**10**	ND	<1	<1	**7.6**	<5	<1	**6.2**	**1**
Toluene	600	<5	**1.2**	<1	<1	<1	<5	<1	<1	<1
1,1,1-Trichloroethane	200	<5	ND	<1	<1	<1	<5	<1	<1	<1
Trichloroethene	3	<5	ND	<1	<1	**3.9**	<5	<1	**2**	<1
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<5	ND	<2	<2	<2	<5	<2	<2	<2
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	NA	NA	<10	NA	<10
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	<10	NA	<10
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA	<10	NA	<10
3-Methylphenol/4-Methylphenol	400/40	NA	NA	NA	NA	NA	NA	<10	NA	<10

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18	MW-18
Date Sampled:	Standard	6/7/2005	6/21/2006	4/9/2007	6/24/2008	6/9/2009	6/14/2010	6/20/2011	5/1/2012	6/18/2013
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	19.85	17.98	18.49	18.86	17.80	19.75
pH (standard units)	6.5 - 8.5	NR	NR	NR	11.41	10.23	11.53	6.16	6.60	11.44
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	0.24	1.29	0.10	3.03	5.02	1.08
Specific Conductance (µS/cm)	NE	NR	NR	NR	902	1182	2027	402	253	2
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	-60	9.8	-119.6	181.9	-40.1	-89.0
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<25	<25	<25	<25	<25	<25	**31**	<25	<25
Benzene	1	<1	<1	<1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<1	<1	<10	<10	<25	<10	<10	<10	<10
Carbon Tetrachloride	0.3	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Chloroform	70	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	0.4	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	600	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<1	<1	<10	<10	<25	<10	<10	<10	<10
Methylene Chloride	5	<5	<5	<5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Toluene	600	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Trichloroethene	3	<1	<1	<1	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Vinyl Chloride	0.03	NA	NA	NA	<1.0	<5.0	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<2	<2	<2	<2.0	<10	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	NA	<9.4	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	NA	<9.4	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	<9.4	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA	NA	<9.4	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Date Sampled:	Standard	9/26/1996	6/26/1998	12/23/1998	6/11/1999	12/14/1999	6/22/2000	12/18/2000	6/5/2001	12/13/2001
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<10,000	<25,000	<25,000	<2,500	<6,200	<6,200	NA	<6,200	<5,000
Benzene	1	<1,000	<2,500	<2,500	<100	<250	<250	**330**	**300**	**320**
Carbon Tetrachloride	0.3	<1,000	<2,500	<2,500	<100	<250	<250	NA	<250	<200
Chloroform	70	<1,000	<2,500	<2,500	<100	<250	<250	<250	<250	<200
1,1-Dichloroethane	6	<1,000	<2,500	<2,500	<100	<250	<250	<250	<250	<200
1,1-Dichloroethene	350	**2,000**	<2,500	<2,500	**590**	**1,900**	**1,700**	**1,600**	<250	**1,800**
cis-1,2-Dichloroethene	70	<1,000	<2,500	<2,500	<100	<250	<250	<250	<250	<200
Ethylbenzene	600	<1,000	<2,500	<2,500	<100	<250	<250	NA	<250	<200
Methylene Chloride	5	<1,000	<2,500	<2,500	<100	<1,200	<1,200	<1,200	<1,200	<1,000
Tetrachloroethene	0.7	**25,000**	**36,000**	**41,000**	**9,800**	**39,000**	**30,000**	**28,000**	**24,000**	**28,000**
Toluene	600	<1,000	<2,500	<2,500	<100	<250	<250	<250	<250	<200
1,1,1-Trichloroethane	200	<1,000	<2,500	<2,500	<100	1,000	720	720	590	640
Trichloroethene	3	**10,000**	**8,900**	**8,800**	**5,100**	**10,000**	**8,000**	**7,200**	**6,500**	**7,600**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<2,000	<2,500	<5,000	<200	<500	<500	<500	<500	<400
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	**110**	**120**	NA	**100**	**77**	**110**	**45**	**91**
1,2-Dichlorobenzene	20	NA	**180**	**200**	NA	**180**	**120**	**190**	**72**	**160**
1,4-Dichlorobenzene	6	NA	<20	NA	NA	**10**	<10	<10	<10	<10
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Date Sampled:	Standard	6/18/2002	12/4/2002	6/26/2003	12/10/2003	6/24/2004	12/16/2004	6/8/2005	12/12/2005	6/22/2006
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<25,000	<12,000	<10,000	<2,500	<12,000	<12,000	<5,000	<6,300	<5,000
Benzene	1	<2,500	<500	<400	**230**	<500	<500	**260**	**280**	**300**
Carbon Tetrachloride	0.3	<2,500	<500	<400	<100	<500	<500	410	<250	<200
Chloroform	70	<2,500	<500	<400	<100	<500	<500	<200	<250	<200
1,1-Dichloroethane	6	<2,500	<500	<400	<100	<500	<500	<200	<250	<200
1,1-Dichloroethene	350	<2,500	**1,900**	**1,600**	**1,000**	**1,900**	**1,400**	**1,300**	**1,000**	**1,300**
cis-1,2-Dichloroethene	70	<2,500	<500	<400	**130**	<500	<500	**240**	<250	**320**
Ethylbenzene	600	<2,500	<500	<400	<100	<500	<500	<200	<250	<200
Methylene Chloride	5	<2,500	<2,500	<2,000	<500	<2,500	<2,500	<1,000	<1,300	<1,000
Tetrachloroethene	0.7	**14,000**	**46,000**	**41,000**	**28,000**	**39,000**	**39,000**	**31,000**	**32,000**	**29,000**
Toluene	600	<2,500	<500	<400	<100	<500	<500	<200	<250	<200
1,1,1-Trichloroethane	200	<2,500	920	730	390	550	<500	<200	390	320
Trichloroethene	3	**38,000**	**10,000**	**8,500**	**6,200**	**8,800**	**6,800**	**6,900**	**6,600**	**6,500**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<5,000	<1,000	<400	<200	<1,000	<1,000	<400	<500	<400
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**110**	**130**	**120**	**100**	**95**	**95**	NA	**120**	**130**
1,2-Dichlorobenzene	20	**190**	**240**	**170**	**170**	**160**	**160**	NA	**180**	**190**
1,4-Dichlorobenzene	6	<10	<20	<10	<20	<10	<10	NA	<9.4	**10**
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Date Sampled:	Standard	12/7/2006	4/10/2007	12/13/2007	6/23/2008	12/8/2008	6/10/2009	12/29/2009	6/14/2010	12/17/2010
Field Parameters										
Temperature (°C)	NE	NR	NR	18.94	20.72	15.03	21.95	17.95	20.32	17.11
pH (standard units)	6.5 - 8.5	NR	NR	6.30	5.20	6.24	6.12	6.48	6.02	7.36
Dissolved Oxygen (mg/L)	NE	NR	NR	0.35	0.70	0.67	3.61	0.07	0.32	0.37
Specific Conductance (µS/cm)	NE	NR	NR	246	188	220	287	228	214	605
Oxidation-Reduction Potential (mV)	NE	NR	NR	116	131.9	-80	99	-70	-84.2	136.6
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<2,500	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000	<5,000
Benzene	1	**150**	**210**	<200	**200**	<200	<200	<200	<200	<200
Carbon Tetrachloride	0.3	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<200
Chloroform	70	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<200
1,1-Dichloroethane	6	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<200
1,1-Dichloroethene	350	**1,100**	**1,700**	**990**	**1,000**	**550**	<1,000	<1,000	**740**	**500**
cis-1,2-Dichloroethene	70	**170**	**410**	**200**	**300**	<200	<1,000	<1,000	**280**	**290**
Ethylbenzene	600	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<200
Methylene Chloride	5	<500	**1,100**	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000
Tetrachloroethene	0.7	**24,000**	**35,000**	**28,000**	**31,000**	**20,000**	**25,000**	**16,000**	**27,000**	**31,000**
Toluene	600	<100	<200	<200	<200	<200	<1,000	<1,000	<200	<200
1,1,1-Trichloroethane	200	260	350	**250**	**260**	<200	<1,000	<1,000	<200	<200
Trichloroethene	3	**4,000**	**8,100**	**4,300**	**5,200**	**3,200**	**3,900**	**2,500**	**3,800**	**4,100**
Vinyl Chloride	0.03	NA	NA	<200	<200	<200	<1,000	<1,000	<200	<200
Xylenes (Total)	500	<200	<400	<400	<400	<400	<2,000	<2,000	<400	<400
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	**11**	NA
1,2,4-Trichlorobenzene	70	**120**	**91**	NA	**110**	NA	**97**	NA	**73**	NA
1,2-Dichlorobenzene	20	**180**	**140**	NA	**130**	NA	**100**	NA	**62**	NA
1,4-Dichlorobenzene	6	<9.4	<10	NA	<9.4	NA	<9.4	NA	<9.4	NA
Naphthalene	6	NA	<10	NA	<9.4	NA	<9.4	NA	<9.4	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19	MW-19
Date Sampled:	Standard	6/21/2011	12/13/2011	5/1/2012	12/13/2012	6/19/2013	6/20/2014	9/22/2016
Field Parameters								
Temperature (°C)	NE	19.27	18.67	19.40	18.65	21.09	19.63	22.8
pH (standard units)	6.5 - 8.5	6.88	6.29	6.45	6.05	6.25	6.53	6.17
Dissolved Oxygen (mg/L)	NE	0.51	0.81	1.11	0.09	0.00	4.50	0.7
Specific Conductance (µS/cm)	NE	272	354	219	644	227	257	217
Oxidation-Reduction Potential (mV)	NE	136.2	127.0	-117.5	-19.0	149.0	10.8	57
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<5000	<5000	<5000	<5000	<5000	<5000	<2000
Benzene	1	<200	<200	<200	<200	<200	<200	**220**
Carbon Tetrachloride	0.3	<200	<200	<200	<200	<200	<200	<200
Chloroform	70	<200	<200	<200	<200	<200	<200	<200
1,1-Dichloroethane	6	<200	<200	<200	<200	<200	<200	<200
1,1-Dichloroethene	350	**920**	**500**	**740**	**520**	**680**	**700**	**780**
cis-1,2-Dichloroethene	70	**450**	**350**	**540**	**640**	**720**	**1,400**	**2,300**
Ethylbenzene	600	<200	<200	<200	<200	<200	<200	<200
Methylene Chloride	5	<1000	<1000	<1000	<1000	<1000	<1000	<1000
Tetrachloroethene	0.7	**31,000**	**19,000**	**22,000**	**19,000**	**22,000**	**21,000**	**20,000**
Toluene	600	<200	<200	<200	<200	<200	<200	<200
1,1,1-Trichloroethane	200	**270**	<200	<200	<200	<200	<200	<200
Trichloroethene	3	**5,000**	**3,000**	**4,100**	**3,300**	**4,200**	**4,400**	**4,500**
Vinyl Chloride	0.03	<200	<200	<200	<200	<200	<200	<200
Xylenes (Total)	500	<400	<400	<400	<400	<400	<400	<200
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	**8.1**	NA	**13**	NA	**28**	**28 J**	NA
1,2,4-Trichlorobenzene	70	**49**	NA	**49**	NA	**28**	**22 J**	NA
1,2-Dichlorobenzene	20	**51**	NA	**78**	NA	**26**	**26 J**	NA
1,4-Dichlorobenzene	6	**4.1**	NA	<4.9	NA	**3.5**	<9.4	NA
Naphthalene	6	**1.2**	NA	**1.3**	NA	<0.19	<1.9	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Date Sampled:	Standard	6/25/1998	1/15/1999	6/10/1999	12/14/1999	6/22/2000	12/19/2000	6/5/2001	12/13/2001	12/4/2002
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	NA	NA	ND	<2,500	<120	NA	<2,500	<1,200	<2,500
Benzene	1	NA	NA	ND	<100	**66**	<50	<100	<50	**150**
Carbon Tetrachloride	0.3	NA	NA	ND	<100	**8.3**	NA	<100	<50	<100
Chloroform	70	<500	NA	ND	<100	**84**	**88**	**110**	**87**	**130**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<500	<500	ND	<100	**79**	**82**	**100**	**120**	**120**
1,2-Dichloroethane	0.4	NA	NA	NA	NA	**23**	NA	<100	<50	<100
1,1-Dichloroethene	350	**1,400**	**2,700**	**1,300**	**2,300**	**1,400**	**2,200**	**2,900**	**2,300**	**3,200**
cis-1,2-Dichloroethene	70	<500	<500	ND	<100	**44**	<50	<100	**52**	<100
Ethylbenzene	600	NA	NA	ND	<100	<5	NA	<100	<50	<100
Methylene Chloride	5	<500	**350**	ND	**510**	**550**	**510**	**640**	**920**	**1,600**
Tetrachloroethene	0.7	**5,000**	**13,000**	**5,100**	**8,400**	**4,400**	**7,400**	**10,000**	**5,900**	**12,000**
Toluene	600	<500	#N/A	ND	<100	**5.8**	<50	<100	<50	<100
1,1,1-Trichloroethane	200	**530**	**1,200**	**620**	**980**	**770**	**930**	**900**	**450**	**970**
Trichloroethene	3	**7,900**	**9,600**	**8,200**	**10,000**	**6,900**	**8,500**	**11,000**	**8,000**	**10,000**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<500	NA	ND	<200	**36**	<100	<200	<100	<200
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**80**	**53**	NA	**97**	**52**	**84**	<10	**50**	**120**
1,2-Dichlorobenzene	20	**120**	**92**	NA	**170**	**94**	**150**	<10	**83**	**230**
1,4-Dichlorobenzene	6	<20	NA	NA	**20**	**10**	**15**	<10	**10**	**25**
3-Methylphenol/4-Methylphenol	400/40	<20	NA	NA	NA	<10	NA	<10	<10	<20
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Date Sampled:	Standard	6/26/2003	12/10/2003	6/24/2004	12/15/2004	6/8/2005	12/12/2005	6/21/2006	12/7/2006	4/9/2007
Field Parameters										
Temperature (°C)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	NR	NR	NR	NR
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	NR	NR	NR	NR
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<5,000	<2,500	<2,500	<2,500	<1,300	<1,300	<1,300	<1,300	<25
Benzene	1	**140**	<100	<100	<100	**69**	**63**	**58**	**58**	**56**
Carbon Tetrachloride	0.3	**120**	<100	<100	<100	<50	<50	<50	<50	**31**
Chloroform	70	**170**	**160**	**130**	**140**	**120**	**120**	**130**	**120**	**140**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,1-Dichloroethane	6	<100	**200**	**180**	**190**	**180**	**160**	**250**	**250**	**320**
1,2-Dichloroethane	0.4	**260**	<100	<100	<100	<50	<50	<50	**64**	**68**
1,1-Dichloroethene	350	**3,200**	**2,800**	**2,300**	**2,300**	**2,100**	**1,400**	**5,200**	**4,200**	**8,000**
cis-1,2-Dichloroethene	70	**300**	<100	<100	<100	**6,500**	**8,000**	**550**	**92**	**150**
Ethylbenzene	600	<100	<100	<100	<100	<50	<50	<50	<50	**13**
Methylene Chloride	5	**2,500**	**2,800**	**2,600**	**2,600**	**2,100**	**1,800**	**5,200**	**5,200**	**7,200**
Tetrachloroethene	0.7	**9,700**	**8,100**	**5,700**	**6,400**	**690**	**270**	**8,100**	**8,600**	**11,000**
Toluene	600	**120**	<100	<100	<100	<50	<50	<50	<50	**35**
1,1,1-Trichloroethane	200	**580**	**340**	**230**	**200**	**180**	**160**	**250**	<50	**290**
Trichloroethene	3	**9,100**	**7,400**	**5,900**	**5,800**	**2,200**	**460**	**9,500**	**9,800**	**14,000**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	NA	NA	NA	NA
Xylenes (Total)	500	<200	<200	<200	<200	<50	<100	**110**	**140**	**250**
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	**120**	**79**	**81**	**85**	NA	**44**	**120**	**150**	NA
1,2-Dichlorobenzene	20	**230**	**150**	**130**	**150**	NA	**93**	**270**	**340**	NA
1,4-Dichlorobenzene	6	**25**	**13**	**15**	<10	NA	**9.7**	<50	**32**	NA
3-Methylphenol/4-Methylphenol	400/40	<20	<10	<10	<10	NA	<9.4	NA	<10	NA
Naphthalene	6	NA	NA	NA	NA	NA	NA	NA	**18**	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20	MW-20
Date Sampled:	Standard	12/13/2007	6/25/2008	12/8/2008	6/9/2009	12/29/2009	6/14/2010	12/17/2010	6/21/2011	12/13/2011
Field Parameters										
Temperature (°C)	NE	18.40	19.47	14.55	19.07	17.52	19.19	17.32	18.17	18.43
pH (standard units)	6.5 - 8.5	6.02	6.44	5.81	6.40	6.17	5.76	6.53	6.06	7.74
Dissolved Oxygen (mg/L)	NE	0.37	0.65	0.35	0.79	0.1	0.16	0.92	0.64	1.27
Specific Conductance (µS/cm)	NE	522	482	448	421	510	553	165	398	950
Oxidation-Reduction Potential (mV)	NE	-105	-196	-184	-84.2	-121	-118.8	128.4	-105.9	-182.0
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<1,300	<2,500	<2,500	<2,500	<1,200	<2,500	<2,500	<2500	<2500
Benzene	1	**66**	<100	<100	<100	**52**	<100	<100	<100	<100
Carbon Tetrachloride	0.3	<50	<100	<100	<500	<250	<100	<100	<100	<100
Chloroform	70	**180**	**160**	**190**	<500	<250	**240**	**320**	**100**	**280**
1,2-Dichlorobenzene	20	NA	NA	NA	NA	**430**	**1,100**	**680**	<100	**870**
1,1-Dichloroethane	6	**380**	**330**	**370**	<500	**410**	**550**	**770**	**440**	**640**
1,2-Dichloroethane	0.4	<50	<100	<100	<500	<250	<100	<100	<100	<100
1,1-Dichloroethene	350	**7,500**	**5,400**	**4,700**	**4,900**	**4,100**	**6,500**	**7,100**	**600**	**4,900**
cis-1,2-Dichloroethene	70	**150**	**360**	**980**	**1,200**	**1,700**	**4,700**	**7,900**	**5,200**	**7,200**
Ethylbenzene	600	<50	<100	<100	<500	<250	<100	<100	<100	<100
Methylene Chloride	5	**7,700**	**5,200**	**4,500**	**5,100**	**2,700**	**1,900**	<500	<500	<500
Tetrachloroethene	0.7	**13,000**	**10,000**	**8,000**	**7,200**	**4,100**	**5,300**	**3,400**	<100	**3,800**
Toluene	600	**59**	<100	<100	<500	<250	<100	<100	<100	<100
1,1,1-Trichloroethane	200	**310**	**230**	**180**	<500	<250	<100	<100	<100	**110**
Trichloroethene	3	**13,000**	**11,000**	**11,000**	**10,000**	**7,900**	**12,000**	**9,500**	<100	**6,000**
Vinyl Chloride	0.03	<50	<100	<100	<500	<250	<100	<100	<100	<100
Xylenes (Total)	500	**250**	<200	<200	<1,000	<1,000	350	**340**	<200	**380**
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	NA	NA	NA	NA	NA	**700**	NA	**930 J**	NA
1,2,4-Trichlorobenzene	70	NA	**230**	NA	**200**	NA	**320**	NA	**170 J**	NA
1,2-Dichlorobenzene	20	NA	**540**	NA	**450**	NA	**680**	NA	**500 J**	NA
1,4-Dichlorobenzene	6	NA	<47	NA	**38**	NA	<100	NA	<98	NA
3-Methylphenol/4-Methylphenol	400/40	NA	<47	NA	<38	NA	<100	NA	<200	NA
Naphthalene	6	NA	<47	NA	<38	NA	<38	NA	**27 J**	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-20	MW-20	MW-20	MW-20
Date Sampled:	Standard	5/2/2012	12/13/2012	6/19/2013	6/20/2014
Field Parameters					
Temperature (°C)	NE	19.29	18.30	21.45	20.15
pH (standard units)	6.5 - 8.5	6.50	6.19	6.14	6.16
Dissolved Oxygen (mg/L)	NE	1.08	0.69	0.00	9.65
Specific Conductance (µS/cm)	NE	656	254	674	686
Oxidation-Reduction Potential (mV)	NE	-103.0	39.0	-39.0	-25.8
VOCs (USEPA Method 8260B) µg/L					
Acetone	6,000	<2500	<2500	<2500	<2500
Benzene	1	<100	<100	<100	<100
Carbon Tetrachloride	0.3	<100	<100	<100	<100
Chloroform	70	**340**	**290**	**330**	**370**
1,2-Dichlorobenzene	20	**1,200**	**1,000**	**1,000**	**1,100**
1,1-Dichloroethane	6	**1,300**	**670**	**770**	**840**
1,2-Dichloroethane	0.4	<100	<100	<100	<100
1,1-Dichloroethene	350	**7,600**	**4,800**	**5,200**	**4,400**
cis-1,2-Dichloroethene	70	**9,700**	**7,900**	**9,700**	**10,000**
Ethylbenzene	600	<100	<100	<100	<100
Methylene Chloride	5	<500	<500	<500	<500
Tetrachloroethene	0.7	**4,400**	**3,700**	**2,600**	**800**
Toluene	600	<100	<100	<100	<100
1,1,1-Trichloroethane	200	**110**	**110**	<100	<100
Trichloroethene	3	**7,100**	**5,300**	**4,400**	**1,600**
Vinyl Chloride	0.03	<100	<100	<100	<100
Xylenes (Total)	500	**420**	**310**	<200	**250**
SVOCs (USEPA Method 8270C) µg/L					
1,4-Dioxane	3	**650**	NA	**1400 J**	**840 J**
1,2,4-Trichlorobenzene	70	**260**	NA	**360 J**	**350 J**
1,2-Dichlorobenzene	20	**600**	NA	**810 J**	**780 J**
1,4-Dichlorobenzene	6	**49**	NA	**63 J**	**60 J**
3-Methylphenol/4-Methylphenol	400/40	<96	NA	<120	<96
Naphthalene	6	**22**	NA	**30 J**	**29 J**

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21	MW-21
Date Sampled:	Standard	6/26/1998	6/14/1999	12/13/1999	6/5/2001	4/10/2007	6/23/2008	6/10/2009	6/15/2010
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	20.84	19.82	19.43
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	6.75	6.49	6.31
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	0.47	0.64	0.27
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	287	235	267
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	-210	-90.3	-162.1
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<12,000	<2,500	<2,500	<2,500	<25	<12000	<6,200	<6,200
Benzene	1	<1,200	**750**	**360**	**350**	**280**	<500	<250	<250
Carbon Tetrachloride	0.3	<1,200	<100	<100	<100	**2.2**	<500	<1,200	<250
1,2-Dichlorobenzene	20	<1,200	<100	<100	<100	<10	<500	<1,200	**250**
1,1-Dichloroethane	6	<1,200	**130**	<100	<100	**14**	<500	<1,200	<250
1,1-Dichloroethene	350	**1,600**	**4,100**	**1,500**	**1,500**	**2,900**	**2,100**	**1,600**	**1,600**
cis-1,2-Dichloroethene	70	NA	<100	<100	<100	**140**	<500	<1,200	**830**
trans-1,2-Dichloroethene	100	NA	NA	NA	NA	**2.2**	<500	<1,200	<250
Ethylbenzene	600	<1,200	<100	<100	<100	**1.7**	<500	<1,200	<250
Methylene Chloride	5	<1,200	<100	**740**	**1,000**	**2,500**	<2,500	<1,200	<1,200
Tetrachloroethene	0.7	**33,000**	**37,000**	**17,000**	**21,000**	**37,000**	**42,000**	**33,000**	**33,000**
Toluene	600	<1,200	<100	<100	<100	**6.9**	<500	<1,200	<250
1,1,1-Trichloroethane	200	<1,200	<100	**670**	**600**	**650**	**580**	<1,200	**400**
Trichloroethene	3	**8,000**	**21,000**	**10,000**	**11,000**	**13,000**	**12,000**	**9,000**	**9,400**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	<500	<1200	<250
Xylenes (Total)	500	<2,500	NA	<200	<200	**100**	<1,000	<2,500	<500
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	NA	**64**	NA	NA	**90**	NA	NA	NA
1,2-Dichlorobenzene	20	NA	**100**	NA	NA	**140**	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	**11**	NA	NA	<10	NA	NA	NA
Butylbenzyl phthalate	1000	NA	**16**	NA	NA	NA	NA	NA	NA
Dimethylphthalate	NE	NA	**11**	NA	NA	**14**	NA	NA	NA
Di-n-butylphthalate	700	NA	<10	NA	NA	**15**	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-21	MW-21	MW-21
Date Sampled:	Standard	6/21/2011	5/1/2012	6/19/2013
Field Parameters				
Temperature (°C)	NE	19.93	18.60	19.83
pH (standard units)	6.5 - 8.5	6.78	6.58	6.38
Dissolved Oxygen (mg/L)	NE	0.39	0.98	0.00
Specific Conductance (µS/cm)	NE	279	243	246
Oxidation-Reduction Potential (mV)	NE	74.1	-143.1	44.0
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<1300	<13000	<13000
Benzene	1	**75 J**	<500	<500
Carbon Tetrachloride	0.3	<50	<500	<500
1,2-Dichlorobenzene	20	<50	<500	<500
1,1-Dichloroethane	6	<50	<500	<500
1,1-Dichloroethene	350	**84**	**1,500**	**1,200**
cis-1,2-Dichloroethene	70	**4,500**	**640**	**1,000**
trans-1,2-Dichloroethene	100	<50	<500	<500
Ethylbenzene	600	<50	<500	<500
Methylene Chloride	5	<250	<2500	<2500
Tetrachloroethene	0.7	**61**	**33,000**	**27,000**
Toluene	600	<50	<500	<500
1,1,1-Trichloroethane	200	**210**	<500	<500
Trichloroethene	3	<50	**8,500**	**6,500**
Vinyl Chloride	0.03	<50	<500	<500
Xylenes (Total)	500	<100	<1000	<1000
SVOCs (USEPA Method 8270C) µg/L				
1,2,4-Trichlorobenzene	70	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	NA	NA
Butylbenzyl phthalate	1000	NA	NA	NA
Dimethylphthalate	NE	NA	NA	NA
Di-n-butylphthalate	700	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-22 3/28/1996	MW-22 6/14/1999	MW-22 12/15/1999	MW-22 6/5/2001	MW-22 4/10/2007	MW-22 6/25/2008	MW-22 6/9/2009	MW-22 6/14/2010
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	NR	NR	18.80	19.55	18.79
pH (standard units)	6.5 - 8.5	NR	NR	NR	NR	NR	9.00	7.22	7.17
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	NR	NR	0.95	2.63	0.43
Specific Conductance (µS/cm)	NE	NR	NR	NR	NR	NR	300	161	178
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	NR	NR	90	94.2	-57
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<500	<120	<25	<25	<130	<500	<25	<120
Benzene	1	<100	<5	<1	<1	<5	<20	<1.0	<5.0
Carbon Tetrachloride	0.3	<100	<5	<1	<1	<5	<20	<5.0	<5.0
Chloroform	70	<100	<5	<1	**1.2**	<5	<20	<5.0	<5.0
1,1-Dichloroethane	6	**480**	**6**	**3.5**	**7.2**	**5.1**	<20	<5.0	<5.0
1,2-Dichloroethane	0.4	<100	<5	NA	**1.2**	<5	<20	<5.0	<5.0
1,1-Dichloroethene	350	**1,300**	**180**	**42**	**300**	**160**	**180**	**10**	**35**
cis-1,2-Dichloroethene	70	<100	<5	**21**	**38**	**28**	**44**	<5.0	**13**
Ethylbenzene	600	**120**	<5	<1	<1	<5	<20	<5.0	<5.0
Methylene Chloride	5	**320**	<5	<5	<5	<25	<100	<5.0	<25
Tetrachloroethene	0.7	**1,900**	**580**	**46**	**1,300**	**910**	**1,300**	**56**	**340**
Toluene	600	**140**	<5	**1.4**	<1	<5	<20	<5.0	<5.0
1,1,1-Trichloroethane	200	**2,000**	**6.9**	**4.1**	**9.4**	<5	<20	<5.0	<5.0
Trichloroethene	3	**140**	**110**	**40**	**290**	**280**	**380**	**19**	**87**
Vinyl Chloride	0.03	NA	NA	NA	NA	NA	<20	<5.0	<5.0
Xylenes (Total)	500	**200**	NA	<2	<2	<10	<40	<10	<10
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	<10	<10	NA	NA	<10	NA	NA	NA
1,2-Dichlorobenzene	20	<10	<10	NA	NA	<10	NA	NA	NA
1,4-Dichlorobenzene	6	<10	<10	NA	NA	<10	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	<10	<10	NA	NA	<10	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	<10	**40**	NA	NA	<10	NA	NA	NA
Butyl benzyl phthalate	100	<10	**80**	NA	NA	<10	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-22 6/20/2011	MW-22 5/2/2012	MW-22 6/18/2013	MW-22 6/20/2014	MW-22 6/24/2015	MW-22 9/22/2016
Field Parameters							
Temperature (°C)	NE	19.28	18.56	23.20	18.76	21.10	20.4
pH (standard units)	6.5 - 8.5	7.63	6.45	6.69	5.71	5.34	5.99
Dissolved Oxygen (mg/L)	NE	0.69	0.46	1.15	7.88	0.46	0.0
Specific Conductance (µS/cm)	NE	258	267	279	275	246	189
Oxidation-Reduction Potential (mV)	NE	48.3	-111.2	-52.0	40.7	132.9	-15
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	**220 J**	**210**	<25	<250	< 20	<100
Benzene	1	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
Carbon Tetrachloride	0.3	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
Chloroform	70	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
1,1-Dichloroethane	6	**4.0 J**	<2.0	<1.0	<10	**13**	**13**
1,2-Dichloroethane	0.4	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
1,1-Dichloroethene	350	**91 J**	**2.4**	**3.1**	**160**	**220**	**200**
cis-1,2-Dichloroethene	70	**740 J**	**11**	**8.6**	**220**	**330**	**490**
Ethylbenzene	600	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
Methylene Chloride	5	<5.0 UJ	<10	<5.0	<50	< 10	<50
Tetrachloroethene	0.7	**340 J**	**3.6**	**78.0**	**850**	**770**	**1,200**
Toluene	600	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
1,1,1-Trichloroethane	200	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
Trichloroethene	3	**110 J**	**2.5**	**7.0**	**400**	**360**	**560**
Vinyl Chloride	0.03	<1.0 UJ	<2.0	<1.0	<10	< 2.0	<10
Xylenes (Total)	500	<2.0 UJ	<4.0	<2.0	<20	< 2.0	<10
SVOCs (USEPA Method 8270C) µg/L							
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA	NA	NA	NA	NA
bis(2-Ethylhexyl)phthalate	3	NA	NA	NA	NA	NA	NA
Butyl benzyl phthalate	100	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-22BR 6/21/2006	MW-22BR 12/7/2006	MW-22BR 4/10/2007	MW-22BR 6/25/2008	MW-22BR 12/8/2008	MW-22BR 6/9/2009	MW-22BR 12/29/2009	MW-22BR 6/14/2010
Field Parameters									
Temperature (°C)	NE	NR	NR	NR	18.84	14.41	19.19	16.38	20.23
pH (standard units)	6.5 - 8.5	NR	NR	NR	11.75	11.57	10.02	11.25	11.29
Dissolved Oxygen (mg/L)	NE	NR	NR	NR	0.61	1.63	1.78	0.16	0.16
Specific Conductance (µS/cm)	NE	NR	NR	NR	1140	882	792	885	837
Oxidation-Reduction Potential (mV)	NE	NR	NR	NR	-7	-80	4	-76	-122.3
VOCs (USEPA Method 8260B) µg/L									
Acetone	6,000	<50	<25	<25	<25	<50	<50	<25	<120
1,1-Dichloroethane	6	**6.3**	**4.7**	**5.9**	**6.0**	**5.6**	<10	<5.0	**5.1**
1,2-Dichloroethane	0.4	<5	<1	<1	<1.0	<2.0	<10	<5.0	<5.0
1,1-Dichloroethene	350	**130**	**130**	**120**	**120**	**140**	**100**	**90**	**110**
cis-1,2-Dichloroethene	70	**37**	**35**	**29**	**31**	**27**	**27**	**22**	**35**
Ethylbenzene	600	NA	NA	NA	NA	NA	<10	<5.0	<5.0
Methylene Chloride	5	<10	<5	<5	<5.0	<10	<10	<5.0	<25
Tetrachloroethene	0.7	**320**	**170**	**130**	**220**	**240**	**180**	**150**	**320**
Toluene	600	<5	<1	<1	<1.0	<2.0	<10	<5.0	<5.0
1,1,1-Trichloroethane	200	<5	**2.7**	**1.1**	**1.1**	<2.0	<10	<5.0	<5.0
Trichloroethene	3	**120**	**130**	**110**	**120**	**120**	**100**	**86**	**150**
Vinyl Chloride	0.03	<5	<1	<1	**1.1**	<2.0	<10	<5.0	<5.0
Xylenes (Total)	500	<4	<2	<2	<2.0	<4.0	<10	<10	<10
SVOCs (USEPA Method 8270C) µg/L									
1,2,4-Trichlorobenzene	70	<11	NA	<10	<9.4	NA	<9.4	NA	NA
1,2-Dichlorobenzene	20	<11	NA	<10	<9.4	NA	<9.4	NA	NA
1,4-Dichlorobenzene	6	<11	NA	<10	<9.4	NA	<9.4	NA	NA
2,4-Dimethylphenol	140	NA	NA	NA	<9.4	NA	<9.4	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-22BR 6/20/2011	MW-22BR 5/2/2012	MW-22BR 6/18/2013	MW-22BR 6/20/2014	MW-22BR 6/24/2015	MW-22BR 9/22/2016
Field Parameters							
Temperature (°C)	NE	18.39	20.50	20.24	18.36	22.20	22.5
pH (standard units)	6.5 - 8.5	10.97	11.43	10.44	11.63	11.07	10.93
Dissolved Oxygen (mg/L)	NE	0.82	0.44	0.19	6.24	0.36	0.0
Specific Conductance (µS/cm)	NE	899	1067	763	1034	1190	1083
Oxidation-Reduction Potential (mV)	NE	-98.4	-89.0	79.0	2.9	8.8	-34
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	<25 UJ	<50	<50	<50	< 50	**28**
1,1-Dichloroethane	6	**3.1 J**	**6.7**	**6.8**	**6.1**	**7.6**	**9.4**
1,2-Dichloroethane	0.4	<1.0 UJ	<2.0	<2.0	<2.0	< 5.0	<20
1,1-Dichloroethene	350	**31**	**89**	**110**	**100**	**120**	**130**
cis-1,2-Dichloroethene	70	**14**	**29**	**36**	**33**	**36**	**57**
Ethylbenzene	600	<1.0 UJ	<2.0	<2.0	<2.0	< 5.0	<20
Methylene Chloride	5	<5.0 UJ	<10	<10	<10	< 25	<100
Tetrachloroethene	0.7	**110**	**250**	**330**	**200**	**350**	**370**
Toluene	600	<1.0 UJ	<2.0	<2.0	<2.0	< 5.0	<20
1,1,1-Trichloroethane	200	<1.0 UJ	<2.0	<2.0	<2.0	< 5.0	<20
Trichloroethene	3	**56**	**140**	**160**	**120**	**160**	**260**
Vinyl Chloride	0.03	<1.0 UJ	<2.0	<2.0	<2.0	< 5.0	<20
Xylenes (Total)	500	<2.0 UJ	<4.0	<4.0	<4.0	< 5.0	<20
SVOCs (USEPA Method 8270C) µg/L							
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA
2,4-Dimethylphenol	100	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-23S 8/25/2011	MW-23S 12/13/2011	MW-23S 5/1/2012	MW-23S 6/19/2013	MW-23S 6/20/2014	MW-23S 6/24/2015
Field Parameters							
Temperature (°C)	NE	22.37	19.62	20.08	25.17	20.28	25.41
pH (standard units)	6.5 - 8.5	5.14	4.95	4.94	4.72	5.02	5.14
Dissolved Oxygen (mg/L)	NE	6.60	7.6	6.94	6.53	16.87	5.90
Specific Conductance (µS/cm)	NE	59	93	86	86	81	57
Oxidation-Reduction Potential (mV)	NE	155.5	349	151.2	279.0	164.9	322.3
VOCs (USEPA Method 8260B) µg/L							
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Chloroform	70	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
1,4-Dichlorobenzene	6	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethene	350	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0	3	<1.0	< 1.0
trans-1,2-Dichloroethene	100	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0
Tetrachloroethene	0.7	<1.0	**2.5**	<1.0	<1.0	**1.0**	< 1.0
Toluene	600	<1.0	**1.4**	<1.0	<1.0	<1.0	< 1.0
1,1,1-Trichloroethane	200	<1.0	**3.2**	<1.0	<1.0	<1.0	< 1.0
Trichloroethene	3	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Vinyl Chloride	0.03	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Xylenes (Total)	500	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0
SVOCs (USEPA Method 8270C) µg/L							
1,4-Dioxane	3	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	NA	NA	NA	NA	NA	NA
Naphthalene	6	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-23D 8/25/2011	MW-23D 12/13/2011	MW-23D 5/1/2012	MW-23D 6/20/2014	MW-23D 6/24/2015
Field Parameters						
Temperature (°C)	NE	24.78	NM	19.56	20.74	27.81
pH (standard units)	6.5 - 8.5	7.88	NM	9.33	7.60	8.58
Dissolved Oxygen (mg/L)	NE	1.00	NM	0.26	8.19	6.12
Specific Conductance (µS/cm)	NE	188	NM	480	182	164
Oxidation-Reduction Potential (mV)	NE	-285.3	NM	-123.7	39.6	160.4
VOCs (USEPA Method 8260B) µg/L						
Acetone	6,000	<25	<25	<25	<25	< 10
Benzene	1	<1.0	<1.0	<1.0	<1.0	< 1.0
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0	<1.0	< 1.0
Chloroform	70	<1.0	<1.0	<1.0	<1.0	< 1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0	<1.0	< 1.0
1,4-Dichlorobenzene	6	<1.0	<1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0	<1.0	< 1.0
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	< 1.0
1,1-Dichloroethene	350	**1.2**	<1.0	<1.0	<1.0	< 1.0
cis-1,2-Dichloroethene	70	**1.0**	<1.0	<1.0	<1.0	< 1.0
1,2-Dichloropropane	0.6	<1.0	<1.0	<1.0	<1.0	< 1.0
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0	< 1.0
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0	< 5.0
Tetrachloroethene	0.7	**3.4**	<1.0	<1.0	<1.0	< 1.0
Toluene	600	<1.0	<1.0	<1.0	<1.0	< 1.0
1,1,1-Trichloroethane	200	<1.0	<1.0	<1.0	<1.0	< 1.0
Trichloroethene	3	**3.6**	<1.0	<1.0	<1.0	< 1.0
Vinyl Chloride	0.03	<1.0	<1.0	<1.0	<1.0	< 1.0
Xylenes (Total)	500	<2.0	<2.0	<2.0	<2.0	< 1.0
SVOCs (USEPA Method 8270C) µg/L						
1,4-Dioxane	3	<10	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA
Naphthalene	6	<10	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-24S 8/25/2011	MW-24S 12/13/2011	MW-24S 5/3/2012
Field Parameters				
Temperature (°C)	NE	19.38	18.25	17.92
pH (standard units)	6.5 - 8.5	5.04	4.99	4.96
Dissolved Oxygen (mg/L)	NE	6.48	0.00	1.66
Specific Conductance (µS/cm)	NE	47	85	38
Oxidation-Reduction Potential (mV)	NE	167.2	213	68.9
VOCs (USEPA Method 8260B) µg/L				
Benzene	1	<1.0	<1.0	<1.0
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0
Chloroform	70	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0
1,2-Dichloropropane	0.6	**3.6**	**3.0**	**2.9**
Ethylbenzene	600	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10	<10
Methylene Chloride	5	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**4.7**	**2.8**	<1.0
Toluene	600	**1.7**	**1.3**	<1.0
1,1,1-Trichloroethane	200	<1.0	**2.9**	<1.0
Trichloroethene	3	<1.0	<1.0	<1.0
Vinyl Chloride	0.03	<1.0	<1.0	<1.0
Xylenes (Total)	500	**2.3**	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<10	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA
Naphthalene	6	<10	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-24D 8/25/2011	MW-24D 12/13/2011	MW-24D 5/3/2012
Field Parameters				
Temperature (°C)	NE	23.61	16.88	17.95
pH (standard units)	6.5 - 8.5	7.09	6.68	6.41
Dissolved Oxygen (mg/L)	NE	0.99	0.00	0.85
Specific Conductance (µS/cm)	NE	205	191	110
Oxidation-Reduction Potential (mV)	NE	-258.6	-130	42.5
VOCs (USEPA Method 8260B) µg/L				
Benzene	1	<1.0	**2.0**	<1.0
2-Butanone (MEK)	4,000	**33**	<10	<10
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0
Chloroform	70	**16**	**1.6**	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	**1.1**
1,2-Dichloropropane	0.6	**9.8**	**12**	**8.4**
Ethylbenzene	600	**42**	**8.4**	**2.3**
Methyl Isobutyl Ketone (MIBK)	NE	**13**	<10	<10
Methylene Chloride	5	**6.4**	<5.0	<5.0
Tetrachloroethene	0.7	**4.0**	**5.4**	**1.3**
Toluene	600	**53**	**3.4**	**1.2**
1,1,1-Trichloroethane	200	<1.0	**6.1**	<1.0
Trichloroethene	3	<1.0	**1.4**	<1.0
Vinyl Chloride	0.03	<1.0	<1.0	<1.0
Xylenes (Total)	500	**260**	**210**	**24**
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<9.9	NA	NA
1,2,4-Trichlorobenzene	70	<9.9	NA	NA
1,2-Dichlorobenzene	20	<9.9	NA	NA
1,4-Dichlorobenzene	6	<9.9	NA	NA
2,4-Dimethylphenol	100	**16**	NA	NA
Naphthalene	6	<9.9	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-25S 8/25/2011	MW-25S 12/14/2011	MW-25S 5/3/2012
Field Parameters				
Temperature (°C)	NE	18.21	15.65	16.01
pH (standard units)	6.5 - 8.5	6.18	6.27	7.00
Dissolved Oxygen (mg/L)	NE	5.43	1.12	1.38
Specific Conductance (µS/cm)	NE	260	526	308
Oxidation-Reduction Potential (mV)	NE	152.6	213	-48.1
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<630	<25	<25
Benzene	1	<25	<1.0	<1.0
2-Butanone (MEK)	4,000	<250	<10	<10
Carbon Tetrachloride	0.3	<25	<1.0	<1.0
Chloroform	70	<25	**5.1**	**5.3**
1,2-Dichlorobenzene	20	<25	<1.0	<1.0
1,1-Dichloroethane	6	<25	<1.0	<1.0
1,1-Dichloroethene	350	<25	<1.0	<1.0
cis-1,2-Dichloroethene	70	<25	<1.0	<1.0
Ethylbenzene	600	<25	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<250	<10	<10
Methylene Chloride	5	<130	<5.0	<5.0
Tetrachloroethene	0.7	**1,400**	**4.8**	**3.9**
Toluene	600	<25	<1.0	<1.0
1,1,1-Trichloroethane	200	<25	<1.0	<1.0
Trichloroethene	3	<25	<1.0	<1.0
Vinyl Chloride	0.03	<25	<1.0	<1.0
Xylenes (Total)	500	<50	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<9.9	NA	NA
1,2,4-Trichlorobenzene	70	**12**	NA	NA
1,2-Dichlorobenzene	20	<9.9	NA	NA
1,4-Dichlorobenzene	6	<9.9	NA	NA
Naphthalene	6	<9.9	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-25D 8/25/2011	MW-25D 12/14/2011	MW-25D 5/3/2012
Field Parameters				
Temperature (°C)	NE	21.32	15.71	16.56
pH (standard units)	6.5 - 8.5	7.43	4.13	5.43
Dissolved Oxygen (mg/L)	NE	2.42	2.64	1.87
Specific Conductance (µS/cm)	NE	337	340	206
Oxidation-Reduction Potential (mV)	NE	58.4	306	138.9
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<25	<25	<250
Benzene	1	<1.0	<1.0	<10
2-Butanone (MEK)	4,000	<10	<10	<10
Carbon Tetrachloride	0.3	<1.0	<1.0	<10
Chloroform	70	**5.2**	**2.4**	<10
1,2-Dichlorobenzene	20	**1.5**	**4.1**	<10
1,1-Dichloroethane	6	<1.0	<1.0	<10
1,1-Dichloroethene	350	<1.0	<1.0	<10
cis-1,2-Dichloroethene	70	<1.0	**6.4**	**16**
Ethylbenzene	600	<1.0	<1.0	<10
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10	<100
Methylene Chloride	5	<5.0	<5.0	<50
Tetrachloroethene	0.7	**12**	**4,400**	**8,100**
Toluene	600	**2.5**	<1.0	<10
1,1,1-Trichloroethane	200	<1.0	**1.8**	<10
Trichloroethene	3	**1.2**	**4.5**	<10
Vinyl Chloride	0.03	<1.0	<1.0	<10
Xylenes (Total)	500	**2.6**	<2.0	<20
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<11	NA	NA
1,2,4-Trichlorobenzene	70	<11	NA	NA
1,2-Dichlorobenzene	20	<11	NA	NA
1,4-Dichlorobenzene	6	<11	NA	NA
Naphthalene	6	<11	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-26S 8/25/2011	MW-26S 12/14/2011	MW-26S 5/3/2012
Field Parameters				
Temperature (°C)	NE	18.83	17.18	17.85
pH (standard units)	6.5 - 8.5	5.28	6.57	5.94
Dissolved Oxygen (mg/L)	NE	3.18	1.14	1.71
Specific Conductance (µS/cm)	NE	174	265	168
Oxidation-Reduction Potential (mV)	NE	121.3	-13.0	-57.7
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<630	<630	<25
Benzene	1	<25	<25	<1.0
2-Butanone (MEK)	4,000	<250	<250	<10
Carbon Tetrachloride	0.3	<25	<25	<1.0
Chloroform	70	<25	<25	<1.0
1,2-Dichlorobenzene	20	<25	<25	<1.0
1,1-Dichloroethane	6	<25	<25	**8.6**
1,1-Dichloroethene	350	**33**	**36**	**42**
cis-1,2-Dichloroethene	70	**140**	**230**	**180**
Ethylbenzene	600	<25	<25	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<250	<250	<10
Methylene Chloride	5	<130	<130	<5.0
Tetrachloroethene	0.7	**2,100**	**2,100**	**2,400**
Toluene	600	<25	<25	<1.0
1,1,1-Trichloroethane	200	**180**	**190**	**230 E**
Trichloroethene	3	**1,700**	**2,000**	**2,400**
Vinyl Chloride	0.03	<25	<25	<1.0
Xylenes (Total)	500	<50	<50	<2.0
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<10	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA
Naphthalene	6	<10	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-26D 8/25/2011	MW-26D 12/14/2011	MW-26D 5/3/2012
Field Parameters				
Temperature (°C)	NE	19.79	16.22	16.34
pH (standard units)	6.5 - 8.5	5.94	5.29	6.41
Dissolved Oxygen (mg/L)	NE	4.40	0.79	1.59
Specific Conductance (µS/cm)	NE	312	434	281
Oxidation-Reduction Potential (mV)	NE	64.5	202	49.8
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<25	<25	<25
Benzene	1	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<10	<10	<10
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0
Chloroform	70	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	<1.0	<1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0
Ethylbenzene	600	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10	<10
Methylene Chloride	5	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**5.7**	**1.3**	<1.0
Toluene	600	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	<1.0	<1.0
Trichloroethene	3	**1.6**	<1.0	<1.0
Vinyl Chloride	0.03	<1.0	<1.0	<1.0
Xylenes (Total)	500	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	<9.8	NA	NA
1,2,4-Trichlorobenzene	70	<9.8	NA	NA
1,2-Dichlorobenzene	20	<9.8	NA	NA
1,4-Dichlorobenzene	6	<9.8	NA	NA
Naphthalene	6	<9.8	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-27S	MW-27S	MW-27S	MW-27S	MW-27S	MW-27S	MW-27S	MW-27S	MW-27S
Date Sampled:	Standard	4/11/2011	12/13/2011	5/2/2012	6/18/2013	12/10/2013	6/19/2014	12/17/2014	6/24/2015	12/10/2015
Field Parameters										
Temperature (°C)	NE	21.85	21.39	21.05	20.83	19.39	20.50	19.29	25.36	21.07
pH (standard units)	6.5 - 8.5	5.66	5.70	5.42	5.91	5.91	5.82	5.79	5.84	5.79
Dissolved Oxygen (mg/L)	NE	5.84	3.59	4.36	4.82	3.76	7.20	8.84	6.32	3.47
Specific Conductance (µS/cm)	NE	103	114	87	101	95	94	102	108	123
Oxidation-Reduction Potential (mV)	NE	135.9	252	114	203	-75.7	136.9	113	266.9	147.8
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<120	<130	<130	<250	<250	<500	<100	< 100	< 100
Benzene	1	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
Carbon Tetrachloride	0.3	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
Chloroform	70	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
1,2-Dichlorobenzene	20	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
1,4-Dichlorobenzene	6	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<10	< 10	< 10
1,1-Dichloroethane	6	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
1,1-Dichloroethene	350	**58**	**46**	**81**	**71**	**88**	**58**	**54**	**91**	**64**
cis-1,2-Dichloroethene	70	**12**	**13**	**23**	**31**	**35**	**33**	**25**	**66**	**44**
Ethylbenzene	600	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
Methylene Chloride	5	<25	<25	<25	<50	<50	<100	<50	< 50	< 50
Tetrachloroethene	0.7	**620**	**740**	**950**	**1000**	**1000**	**830**	**660**	**1,200**	**860**
Toluene	600	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
1,1,1-Trichloroethane	200	<5.0	**11**	<5.0	<10	<10	<20	<10	< 10	< 10
Trichloroethene	3	**350**	**340**	**540**	**450**	**500**	**370**	**290**	**550**	**390**
Vinyl Chloride	0.03	<5.0	<5.0	<5.0	<10	<10	<20	<10	< 10	< 10
Xylenes (Total)	500	<10	<10	<10	<20	<20	<40	<20	< 10	< 10
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	<2.0	NA	NA	NA	NA	**3.4**	NA	< 9.5	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	<0.97	NA	< 9.5	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA	<0.97	NA	< 9.5	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA	<0.97	NA	< 9.5	NA
Naphthalene	6	<10	NA	NA	NA	NA	<0.19	NA	< 9.5	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-27S
Date Sampled:	Standard	9/22/2016
Field Parameters		
Temperature (°C)	NE	22.4
pH (standard units)	6.5 - 8.5	5.95
Dissolved Oxygen (mg/L)	NE	2.5
Specific Conductance (µS/cm)	NE	108
Oxidation-Reduction Potential (mV)	NE	191
VOCs (USEPA Method 8260B) µg/L		
Acetone	6,000	<100
Benzene	1	<10
Carbon Tetrachloride	0.3	<10
Chloroform	70	<10
1,2-Dichlorobenzene	20	<10
1,4-Dichlorobenzene	6	<10
1,1-Dichloroethane	6	<10
1,1-Dichloroethene	350	**76**
cis-1,2-Dichloroethene	70	**71**
Ethylbenzene	600	<10
Methylene Chloride	5	<50
Tetrachloroethene	0.7	**1,100**
Toluene	600	<10
1,1,1-Trichloroethane	200	<10
Trichloroethene	3	**540**
Vinyl Chloride	0.03	<10
Xylenes (Total)	500	<10
SVOCs (USEPA Method 8270C) µg/L		
1,4-Dioxane	3	NA
1,2,4-Trichlorobenzene	70	NA
1,2-Dichlorobenzene	20	NA
1,4-Dichlorobenzene	6	NA
Naphthalene	6	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D	MW-27D
Date Sampled:	Standard	4/11/2011	12/13/2011	5/2/2012	6/20/2014	6/24/2015	9/22/2016
Field Parameters							
Temperature (°C)	NE	20.74	18.67	19.99	18.94	23.25	22.6
pH (standard units)	6.5 - 8.5	6.82	6.42	6.16	5.91	6.41	6.8
Dissolved Oxygen (mg/L)	NE	0.63	2.53	3.88	7.20	4.19	0.1
Specific Conductance (µS/cm)	NE	277	175	126	125	121	142
Oxidation-Reduction Potential (mV)	NE	35.5	192	68.7	85.3	98.6	79
VOCs (USEPA Method 8260B) µg/L							
Acetone	6,000	<250	<250	<250	<500	< 200	<200
Benzene	1	<10	<10	<10	<20	< 20	<20
Carbon Tetrachloride	0.3	<10	<10	<10	<20	< 20	<20
Chloroform	70	<10	<10	<10	<20	< 20	<20
1,2-Dichlorobenzene	20	<10	<10	<10	<20	< 20	<20
1,4-Dichlorobenzene	6	<10	<10	<10	<20	< 20	<20
1,1-Dichloroethane	6	<10	<10	<10	<20	< 20	<20
1,2-Dichloroethane	0.4	<10	<10	<10	<20	< 20	<20
1,1-Dichloroethene	350	**120**	**110**	**190**	**150**	**180**	**130**
cis-1,2-Dichloroethene	70	**56**	**66**	**100**	**150**	**200**	**250**
1,2-Dichloropropane	0.6	<10	<10	<10	<20	< 20	<20
Ethylbenzene	600	<10	<10	<10	<20	< 20	<20
Methylene Chloride	5	<50	<50	<50	<100	< 100	<20
Tetrachloroethene	0.7	**1,300**	**1,700**	**1,700**	**1,700**	**1,700**	**1,200**
Toluene	600	<10	<10	<10	<20	< 20	<20
1,1,1-Trichloroethane	200	<10	**11**	<10	<20	< 20	<20
Trichloroethene	3	**690**	**790**	**970**	**770**	**820**	**860**
Vinyl Chloride	0.03	<10	<10	<10	<20	< 20	<20
Xylenes (Total)	500	<20	<20	<20	<40	< 20	<20
SVOCs (USEPA Method 8270C) µg/L							
1,4-Dioxane	3	**4.8**	NA	NA	**12.0**	< 9.5	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	<1.0	< 9.5	NA
1,2-Dichlorobenzene	20	<10	NA	NA	<1.0	< 9.5	NA
1,4-Dichlorobenzene	6	<10	NA	NA	<1.0	< 9.5	NA
Naphthalene	6	<10	NA	NA	<0.20	< 9.5	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-28S 4/11/2011	MW-28S 12/13/2011	MW-28S 5/1/2012	MW-28S 6/18/2013
Field Parameters					
Temperature (°C)	NE	18.19	20.37	19.42	21.58
pH (standard units)	6.5 - 8.5	5.67	5.69	5.69	5.39
Dissolved Oxygen (mg/L)	NE	4.29	1.04	2.41	2.22
Specific Conductance (µS/cm)	NE	373	432	647	928
Oxidation-Reduction Potential (mV)	NE	158.8	208	113.7	202
VOCs (USEPA Method 8260B) µg/L					
Acetone	6,000	<25	<25	<25	<25
Benzene	1	<1.0	<1.0	<1.0	<1.0
2-Butanone (MEK)	4,000	<10	<10	<10	<10
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0	<1.0
Chloroform	70	**1.0**	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethene	350	**7.7**	**5.5**	**3.8**	<1.0
cis-1,2-Dichloroethene	70	**4.8**	**3.7**	**3.1**	**2.6**
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0
Methyl Isobutyl Ketone (MIBK)	NE	<10	<10	<10	<10
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0
Tetrachloroethene	0.7	**110**	**97**	**65**	**71**
Toluene	600	<1.0	**2.2**	<1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	**6.2**	<1.0	<1.0
Trichloroethene	3	**42**	**37**	**25**	**23**
Vinyl Chloride	0.03	<1.0	<1.0	<1.0	<1.0
Xylenes (Total)	500	<2.0	<2.0	<2.0	<2.0
SVOCs (USEPA Method 8270C) µg/L					
1,4-Dioxane	3	**3.6**	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA
Naphthalene	6	<10	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-28D 4/11/2011	MW-28D 12/13/2011	MW-28D 5/1/2012
Field Parameters				
Temperature (°C)	NE	19.09	18.29	19.33
pH (standard units)	6.5 - 8.5	6.32	6.01	6.19
Dissolved Oxygen (mg/L)	NE	0.51	1.23	2.54
Specific Conductance (µS/cm)	NE	385	274	220
Oxidation-Reduction Potential (mV)	NE	42	252	77.5
VOCs (USEPA Method 8260B) µg/L				
Acetone	6,000	<120	<120	<250
Benzene	1	<5.0	<5.0	<10
2-Butanone (MEK)	4,000	<50	<50	<100
Carbon Tetrachloride	0.3	<5.0	<5.0	<10
Chloroform	70	<5.0	<5.0	<10
1,2-Dichlorobenzene	20	<5.0	<5.0	<10
1,1-Dichloroethane	6	<5.0	<5.0	<10
1,1-Dichloroethene	350	**57**	**53**	**65**
cis-1,2-Dichloroethene	70	**49**	**56**	**65**
Ethylbenzene	600	<5.0	<5.0	<10
Methyl Isobutyl Ketone (MIBK)	NE	<50	<50	<100
Methylene Chloride	5	<25	<25	<50
Tetrachloroethene	0.7	**660**	**910**	**960**
Toluene	600	<5.0	<5.0	<10
1,1,1-Trichloroethane	200	<5.0	**12**	<10
Trichloroethene	3	**340**	**380**	**410**
Vinyl Chloride	0.03	<5.0	<5.0	<10
Xylenes (Total)	500	<10	<10	<20
SVOCs (USEPA Method 8270C) µg/L				
1,4-Dioxane	3	**31**	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA
Naphthalene	6	<10	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-29S	MW-29S	MW-29S	MW-29S	MW-29S	MW-29S	MW-29S	MW-29S	MW-29S
Date Sampled:	Standard	4/11/2011	12/13/2011	5/2/2012	6/18/2013	12/9/2013	6/19/2014	12/17/2014	6/24/2015	12/10/2015
Field Parameters										
Temperature (°C)	NE	14.53	16.48	19.22	22.91	12.65	24.90	14.71	32.15	17.71
pH (standard units)	6.5 - 8.5	4.33	5.55	5.65	5.6	5.72	5.85	5.91	5.85	6.00
Dissolved Oxygen (mg/L)	NE	10.46	0.00	2.40	0.59	2.06	5.01	5.81	2.80	0.23
Specific Conductance (µS/cm)	NE	205	206	220	227	169	884	417	419	362
Oxidation-Reduction Potential (mV)	NE	247.6	-18	138.5	143	-66.9	69.4	58	135.7	58.2
VOCs (USEPA Method 8260B) µg/L										
Acetone	6,000	<25	<25	<25	<25	<25	<25	<10	< 10	< 10
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Carbon Tetrachloride	0.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Chloroform	70	**2.5**	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
1,2-Dichlorobenzene	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
1,1-Dichloroethane	6	**2.2**	**1.2**	<1.0	<1.0	**1.7**	<1.0	**1.4**	**1.5**	**1.8**
1,1-Dichloroethene	350	**10**	**1.6**	**3.2**	**2.5**	**6.6**	**1.1**	**4.8**	**4.6**	**5.8**
cis-1,2-Dichloroethene	70	**17**	**7.6**	**6.4**	**6.5**	**15**	**2.9**	**11**	**11**	**17**
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0
Tetrachloroethene	0.7	**72**	**44**	**31**	**80**	**63 J**	**20**	**62**	**50**	**72**
Toluene	600	<1.0	**1.8**	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
1,1,1-Trichloroethane	200	<1.0	**3.7**	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Trichloroethene	3	**28**	**17**	**12**	**13**	**24**	**5.2**	**22**	**18**	**29**
Vinyl Chloride	0.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	< 1.0
Xylenes (Total)	500	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	< 1.0	< 1.0
SVOCs (USEPA Method 8270C) µg/L										
1,4-Dioxane	3	**7.6**	NA	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA	NA	NA	NA	NA
Naphthalene	6	<10	NA	NA	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facilit

Sample Location:	NCAC 2L	MW-29S
Date Sampled:	Standard	9/22/2016
Field Parameters		
Temperature (°C)	NE	27.1
pH (standard units)	6.5 - 8.5	5.73
Dissolved Oxygen (mg/L)	NE	0.0
Specific Conductance (µS/cm)	NE	1030
Oxidation-Reduction Potential (mV)	NE	-1.8
VOCs (USEPA Method 8260B) µg/L		
Acetone	6,000	<10
Benzene	1	<1.0
Carbon Tetrachloride	0.3	<1.0
Chloroform	70	<1.0
1,2-Dichlorobenzene	20	<1.0
1,1-Dichloroethane	6	**1.8**
1,1-Dichloroethene	350	**8.1**
cis-1,2-Dichloroethene	70	**17**
Ethylbenzene	600	<1.0
Methylene Chloride	5	<5.0
Tetrachloroethene	0.7	**80**
Toluene	600	<1.0
1,1,1-Trichloroethane	200	<1.0
Trichloroethene	3	**32**
Vinyl Chloride	0.0	<1.0
Xylenes (Total)	500	<1.0
SVOCs (USEPA Method 8270C) µg/L		
1,4-Dioxane	3	NA
1,2,4-Trichlorobenzene	70	NA
1,2-Dichlorobenzene	20	NA
1,4-Dichlorobenzene	6	NA
Naphthalene	6	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: / **Date Sampled:**	NCAC 2L Standard	MW-29D 4/11/2011	MW-29D 12/13/2011	MW-29D 5/2/2012	MW-29D 6/19/2013	MW-29D 6/19/2014	MW-29D 6/24/2015	MW-29D 9/22/2016
Field Parameters								
Temperature (°C)	NE	15.95	18.56	19.01	28.37	19.49	27.82	24.3
pH (standard units)	6.5 - 8.5	5.62	5.79	5.90	5.80	5.70	5.92	5.72
Dissolved Oxygen (mg/L)	NE	8.07	0.10	0.35	1.53	6.02	2.68	0.0
Specific Conductance (µS/cm)	NE	223	217	205	183	184	259	166
Oxidation-Reduction Potential (mV)	NE	188.7	202	82.7	156	77.5	123.4	185
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<25	<50	<50	<50	<130	< 50	<50
Benzene	1	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
Carbon Tetrachloride	0.3	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
Chloroform	70	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
1,2-Dichlorobenzene	20	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
1,4-Dichlorobenzene	6	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
1,1-Dichloroethane	6	**5.2**	**5.8**	<2.0	**5.2**	**6.6**	**6.7**	**8.0**
1,2-Dichloroethane	0.4	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
1,1-Dichloroethene	350	**27**	**24**	**43**	**17**	**31**	**35**	**39**
cis-1,2-Dichloroethene	70	**42**	**42**	**59**	**48**	**61**	**65**	**81**
1,2-Dichloropropane	0.6	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
Ethylbenzene	600	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
Methylene Chloride	5	<5.0	<10	<10	<10	<25	< 25	<25
Tetrachloroethene	0.7	**160**	**220**	**240**	**220**	**290**	**290**	**390**
Toluene	600	<1.0	**6.1**	<2.0	<2.0	<5.0	< 5.0	<5.0
1,1,1-Trichloroethane	200	<1.0	**16**	<2.0	<2.0	<5.0	< 5.0	<5.0
Trichloroethene	3	**59**	**100**	**110**	**100**	**100**	**110**	**160**
Vinyl Chloride	0.03	<1.0	<2.0	<2.0	<2.0	<5.0	< 5.0	<5.0
Xylenes (Total)	500	<2.0	<4.0	<4.0	<4.0	<10	< 5.0	<10
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	**13**	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA	NA	NA
Naphthalene	6	<10	NA	NA	NA	NA	NA	NA

Notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location: **Date Sampled:**	NCAC 2L Standard	MW-29BR* 6/29/2012	MW-29BR 6/19/2013
Field Parameters			
Temperature (°C)	NE	NM	19.44
pH (standard units)	6.5 - 8.5	NM	6.36
Dissolved Oxygen (mg/L)	NE	NM	0.00
Specific Conductance (µS/cm)	NE	NM	346
Oxidation-Reduction Potential (mV)	NE	NM	130
VOCs (USEPA Method 8260B) µg/L			
Acetone	6,000	<130	<130
Carbon Tetrachloride	0.3	<5.0	<5.0
Chloroform	70	<5.0	<5.0
1,2-Dichlorobenzene	20	<5.0	<5.0
1,1-Dichloroethane	6	**15**	**11**
1,2-Dichloroethane	0.4	<5.0	<5.0
1,1-Dichloroethene	350	**110**	**100**
cis-1,2-Dichloroethene	70	**130**	**130**
1,2-Dichloropropane	0.6	<5.0	<5.0
Ethylbenzene	600	<5.0	<5.0
Methylene Chloride	5	<25	<25
Tetrachloroethene	0.7	**290**	**360**
Toluene	600	<5.0	<5.0
1,1,1-Trichloroethane	200	<5.0	<5.0
Trichloroethene	3	**170**	**190**
Vinyl Chloride	0.03	**7.7**	**5.2**
Xylenes (Total)	500	<10	<10
SVOCs (USEPA Method 8270C) µg/L			
1,4-Dioxane	3	NA	NA
1,2,4-Trichlorobenzene	70	NA	NA
1,2-Dichlorobenzene	20	NA	NA
1,4-Dichlorobenzene	6	NA	NA
3-Methylphenol/4-Methylphenol	400/40	NA	NA
Dimethylphthalate	NE	NA	NA
Naphthalene	6	NA	NA
Phenol	30	NA	NA

Notes:

* Groundwater sample was collected from a depth interval of 79 to 87 ft bgs in the open boring prior to well installation

Additional notes are presented on the last page of the table.

Table A1. Summary of Historical Groundwater Analytical Results (Detects Only), Former Ashland Distribution Facility, Greensboro, NC

Sample Location:	NCAC 2L	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30	MW-30
Date Sampled:	Standard	4/11/2011	12/13/2011	4/30/2012	6/18/2013	6/19/2014	6/24/2015	9/22/2016
Field Parameters								
Temperature (°C)	NE	16.89	19.83	18.77	19.61	20.45	24.15	25.6
pH (standard units)	6.5 - 8.5	5.53	5.73	5.64	5.32	5.30	5.33	5.65
Dissolved Oxygen (mg/L)	NE	2.76	0.00	0.13	0.00	6.42	3.59	0.0
Specific Conductance (µS/cm)	NE	407	417	446	452	420	264	362
Oxidation-Reduction Potential (mV)	NE	171.1	138	68	59	89.7	84.1	130
VOCs (USEPA Method 8260B) µg/L								
Acetone	6,000	<25	<25	<25	<25	<25	< 10	<25
Benzene	1	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
1,1-Dichloroethane	6	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
1,2-Dichloroethane	0.4	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
1,1-Dichloroethene	350	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
cis-1,2-Dichloroethene	70	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
Ethylbenzene	600	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
Methylene Chloride	5	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0
Tetrachloroethene	0.7	**6.0**	**14**	**6.2**	**6.4**	**2.8**	**7.3**	**11.0**
Toluene	600	<1.0	**3.4**	<1.0	<1.0	<1.0	< 1.0	<1.0
1,1,1-Trichloroethane	200	<1.0	**9.9**	<1.0	<1.0	<1.0	< 1.0	<1.0
Trichloroethene	3	**2.8**	**5.6**	**3.3**	**3.2**	**1.2**	**3.4**	**5.3**
Vinyl Chloride	0.03	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0
Xylenes (Total)	500	<2.0	**2.3**	<2.0	<2.0	<2.0	< 1.0	< 1.0
SVOCs (USEPA Method 8270C) µg/L								
1,4-Dioxane	3	<2.0	NA	NA	NA	NA	NA	NA
1,2,4-Trichlorobenzene	70	<10	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	20	<10	NA	NA	NA	NA	NA	NA
1,4-Dichlorobenzene	6	<10	NA	NA	NA	NA	NA	NA
Naphthalene	6	<10	NA	NA	NA	NA	NA	NA

Notes:

NCAC 2L	Title 15A North Carolina Administrative Code Subchapter 2L Groundwater Quality Standards.		
mg/L	Milligrams per liter	NE	No Standard exists for the constituent
µS/cm	Microseimens per centimeter	NR	Not Recorded
mV	Millivolts	USEPA	United States Environmental Protection Agency.
µg/L	Micrograms per liter.		Shaded value exceeds the NCAC 2L Standard.
VOCs	Volatile organic compounds	J / UJ	Compound concentration is qualified as estimated (detected / nondetect).
SVOCs	Semivolatile organic compounds	UB	Compound concentration qualified as nondetect due to associated blank contamination.
NA	Not analyzed or historic data not available	D	Surrogate recoveries were not obtained because the extract was diluted for analysis

ARCADIS Design & Consultancy for natural and built assets

Attachment 4

Analytical Laboratory Data Reports

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-122921-1
Client Project/Site: Ashland Greensboro Monitoring Wells

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

Attn: Mr. Don Malone

Kathryn Smith

Authorized for release by:
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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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Job ID: 680-122921-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE
Client: ARCADIS U.S., Inc.
Project: Ashland Greensboro Monitoring Wells

Report Number: 680-122921-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT

The samples were received on 03/11/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8 C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)

Samples SW-3 (680-122921-1), SW-4 (680-122921-2), SW-5 (680-122921-3), SW-6 (680-122921-4) and Trip Blank 1 (680-122921-7) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 03/22/2016.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-426058.

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-122921-1	SW-3	Water	03/10/16 11:05	03/11/16 10:55
680-122921-2	SW-4	Water	03/10/16 11:10	03/11/16 10:55
680-122921-3	SW-5	Water	03/10/16 11:30	03/11/16 10:55
680-122921-4	SW-6	Water	03/10/16 11:45	03/11/16 10:55
680-122921-7	Trip Blank 1	Water	03/10/16 00:00	03/11/16 10:55

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

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

Glossary

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-3 — Lab Sample ID: 680-122921-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.9		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	6.1		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	11		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	6.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-122921-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.6		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	7.7		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	11		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	6.6		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-5 — Lab Sample ID: 680-122921-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6.9		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.0		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	10		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	60		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	24		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-6 — Lab Sample ID: 680-122921-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	11		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.8		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	43		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	55		1.0		ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	5.9		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	31		1.0		ug/L	1		8260B	Total/NA
Vinyl chloride	1.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank 1 — Lab Sample ID: 680-122921-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-3

Date Collected: 03/10/16 11:05
Date Received: 03/11/16 10:55

Lab Sample ID: 680-122921-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 17:21	1
Benzene	<1.0		1.0		ug/L			03/22/16 17:21	1
Bromoform	<1.0		1.0		ug/L			03/22/16 17:21	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 17:21	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 17:21	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 17:21	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 17:21	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 17:21	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 17:21	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 17:21	1
Chloroform	<1.0		1.0		ug/L			03/22/16 17:21	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 17:21	1
cis-1,2-Dichloroethene	**3.9**		1.0		ug/L			03/22/16 17:21	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 17:21	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 17:21	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 17:21	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 17:21	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/22/16 17:21	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 17:21	1
1,1-Dichloroethene	**6.1**		1.0		ug/L			03/22/16 17:21	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 17:21	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 17:21	1
2-Hexanone	<10		10		ug/L			03/22/16 17:21	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 17:21	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 17:21	1
Styrene	<1.0		1.0		ug/L			03/22/16 17:21	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 17:21	1
Tetrachloroethene	**11**		1.0		ug/L			03/22/16 17:21	1
Toluene	<1.0		1.0		ug/L			03/22/16 17:21	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 17:21	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 17:21	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/22/16 17:21	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 17:21	1
Trichloroethene	**6.7**		1.0		ug/L			03/22/16 17:21	1
Vinyl chloride	<1.0		1.0		ug/L			03/22/16 17:21	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 17:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/22/16 17:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*03/22/16 17:21*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/22/16 17:21*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/22/16 17:21*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-4

Date Collected: 03/10/16 11:10
Date Received: 03/11/16 10:55

Lab Sample ID: 680-122921-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 17:44	1
Benzene	<1.0		1.0		ug/L			03/22/16 17:44	1
Bromoform	<1.0		1.0		ug/L			03/22/16 17:44	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 17:44	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 17:44	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 17:44	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 17:44	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 17:44	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 17:44	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 17:44	1
Chloroform	<1.0		1.0		ug/L			03/22/16 17:44	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 17:44	1
cis-1,2-Dichloroethene	**3.6**		1.0		ug/L			03/22/16 17:44	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 17:44	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 17:44	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 17:44	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 17:44	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/22/16 17:44	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 17:44	1
1,1-Dichloroethene	**7.7**		1.0		ug/L			03/22/16 17:44	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 17:44	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 17:44	1
2-Hexanone	<10		10		ug/L			03/22/16 17:44	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 17:44	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 17:44	1
Styrene	<1.0		1.0		ug/L			03/22/16 17:44	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 17:44	1
Tetrachloroethene	**11**		1.0		ug/L			03/22/16 17:44	1
Toluene	<1.0		1.0		ug/L			03/22/16 17:44	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 17:44	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 17:44	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/22/16 17:44	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 17:44	1
Trichloroethene	**6.6**		1.0		ug/L			03/22/16 17:44	1
Vinyl chloride	<1.0		1.0		ug/L			03/22/16 17:44	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 17:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/22/16 17:44*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*70 - 130*		*03/22/16 17:44*	*1*
Dibromofluoromethane (Surr)	*103*		*70 - 130*		*03/22/16 17:44*	*1*
4-Bromofluorobenzene (Surr)	*100*		*70 - 130*		*03/22/16 17:44*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-5

Date Collected: 03/10/16 11:30
Date Received: 03/11/16 10:55

Lab Sample ID: 680-122921-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 18:07	1
Benzene	<1.0		1.0		ug/L			03/22/16 18:07	1
Bromoform	<1.0		1.0		ug/L			03/22/16 18:07	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 18:07	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 18:07	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 18:07	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 18:07	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 18:07	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 18:07	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 18:07	1
Chloroform	<1.0		1.0		ug/L			03/22/16 18:07	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 18:07	1
cis-1,2-Dichloroethene	**6.9**		1.0		ug/L			03/22/16 18:07	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 18:07	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 18:07	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 18:07	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 18:07	1
1,1-Dichloroethane	**1.0**		1.0		ug/L			03/22/16 18:07	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 18:07	1
1,1-Dichloroethene	**10**		1.0		ug/L			03/22/16 18:07	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 18:07	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 18:07	1
2-Hexanone	<10		10		ug/L			03/22/16 18:07	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 18:07	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 18:07	1
Styrene	<1.0		1.0		ug/L			03/22/16 18:07	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 18:07	1
Tetrachloroethene	**60**		1.0		ug/L			03/22/16 18:07	1
Toluene	<1.0		1.0		ug/L			03/22/16 18:07	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 18:07	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 18:07	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/22/16 18:07	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 18:07	1
Trichloroethene	**24**		1.0		ug/L			03/22/16 18:07	1
Vinyl chloride	<1.0		1.0		ug/L			03/22/16 18:07	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 18:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*70 - 130*		*03/22/16 18:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*70 - 130*		*03/22/16 18:07*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/22/16 18:07*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/22/16 18:07*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-6

Date Collected: 03/10/16 11:45
Date Received: 03/11/16 10:55

Lab Sample ID: 680-122921-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 18:30	1
Benzene	<1.0		1.0		ug/L			03/22/16 18:30	1
Bromoform	<1.0		1.0		ug/L			03/22/16 18:30	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 18:30	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 18:30	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 18:30	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 18:30	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 18:30	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 18:30	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 18:30	1
Chloroform	<1.0		1.0		ug/L			03/22/16 18:30	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 18:30	1
cis-1,2-Dichloroethene	**11**		1.0		ug/L			03/22/16 18:30	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 18:30	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 18:30	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 18:30	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 18:30	1
1,1-Dichloroethane	**1.8**		1.0		ug/L			03/22/16 18:30	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 18:30	1
1,1-Dichloroethene	**43**		1.0		ug/L			03/22/16 18:30	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 18:30	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 18:30	1
2-Hexanone	<10		10		ug/L			03/22/16 18:30	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 18:30	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 18:30	1
Styrene	<1.0		1.0		ug/L			03/22/16 18:30	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 18:30	1
Tetrachloroethene	**55**		1.0		ug/L			03/22/16 18:30	1
Toluene	<1.0		1.0		ug/L			03/22/16 18:30	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 18:30	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 18:30	1
1,1,1-Trichloroethane	**5.9**		1.0		ug/L			03/22/16 18:30	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 18:30	1
Trichloroethene	**31**		1.0		ug/L			03/22/16 18:30	1
Vinyl chloride	**1.4**		1.0		ug/L			03/22/16 18:30	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*70 - 130*		*03/22/16 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*70 - 130*		*03/22/16 18:30*	*1*
Dibromofluoromethane (Surr)	*101*		*70 - 130*		*03/22/16 18:30*	*1*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*		*03/22/16 18:30*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: Trip Blank 1

Lab Sample ID: 680-122921-7

Date Collected: 03/10/16 00:00
Date Received: 03/11/16 10:55

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 16:58	1
Benzene	<1.0		1.0		ug/L			03/22/16 16:58	1
Bromoform	<1.0		1.0		ug/L			03/22/16 16:58	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 16:58	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 16:58	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 16:58	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 16:58	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 16:58	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 16:58	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 16:58	1
Chloroform	<1.0		1.0		ug/L			03/22/16 16:58	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 16:58	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 16:58	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 16:58	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 16:58	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 16:58	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 16:58	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/22/16 16:58	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 16:58	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/22/16 16:58	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 16:58	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 16:58	1
2-Hexanone	<10		10		ug/L			03/22/16 16:58	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 16:58	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 16:58	1
Styrene	<1.0		1.0		ug/L			03/22/16 16:58	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 16:58	1
Tetrachloroethene	<1.0		1.0		ug/L			03/22/16 16:58	1
Toluene	<1.0		1.0		ug/L			03/22/16 16:58	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 16:58	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 16:58	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/22/16 16:58	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 16:58	1
Trichloroethene	<1.0		1.0		ug/L			03/22/16 16:58	1
Vinyl chloride	<1.0		1.0		ug/L			03/22/16 16:58	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 16:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/22/16 16:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/22/16 16:58*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/22/16 16:58*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/22/16 16:58*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(70-130)	(70-130)	(70-130)	(70-130)
680-122921-1	SW-3	101	102	103	102
680-122921-2	SW-4	102	100	103	100
680-122921-3	SW-5	102	102	102	102
680-122921-4	SW-6	100	101	101	101
680-122921-7	Trip Blank 1	101	103	102	102
LCS 680-426058/5	Lab Control Sample	98	100	100	100
LCSD 680-426058/6	Lab Control Sample Dup	86	97	98	97
MB 680-426058/10	Method Blank	101	103	102	102

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

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

Lab Sample ID: MB 680-426058/10
Matrix: Water
Analysis Batch: 426058

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			03/22/16 12:00	1
Benzene	<1.0		1.0		ug/L			03/22/16 12:00	1
Bromoform	<1.0		1.0		ug/L			03/22/16 12:00	1
Bromomethane	<5.0		5.0		ug/L			03/22/16 12:00	1
2-Butanone (MEK)	<10		10		ug/L			03/22/16 12:00	1
Carbon disulfide	<2.0		2.0		ug/L			03/22/16 12:00	1
Carbon tetrachloride	<1.0		1.0		ug/L			03/22/16 12:00	1
Chlorobenzene	<1.0		1.0		ug/L			03/22/16 12:00	1
Chlorodibromomethane	<1.0		1.0		ug/L			03/22/16 12:00	1
Chloroethane	<5.0		5.0		ug/L			03/22/16 12:00	1
Chloroform	<1.0		1.0		ug/L			03/22/16 12:00	1
Chloromethane	<1.0		1.0		ug/L			03/22/16 12:00	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 12:00	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 12:00	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 12:00	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			03/22/16 12:00	1
Dichlorobromomethane	<1.0		1.0		ug/L			03/22/16 12:00	1
1,1-Dichloroethane	<1.0		1.0		ug/L			03/22/16 12:00	1
1,2-Dichloroethane	<1.0		1.0		ug/L			03/22/16 12:00	1
1,1-Dichloroethene	<1.0		1.0		ug/L			03/22/16 12:00	1
1,2-Dichloropropane	<1.0		1.0		ug/L			03/22/16 12:00	1
Ethylbenzene	<1.0		1.0		ug/L			03/22/16 12:00	1
2-Hexanone	<10		10		ug/L			03/22/16 12:00	1
Methylene Chloride	<5.0		5.0		ug/L			03/22/16 12:00	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			03/22/16 12:00	1
Styrene	<1.0		1.0		ug/L			03/22/16 12:00	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			03/22/16 12:00	1
Tetrachloroethene	<1.0		1.0		ug/L			03/22/16 12:00	1
Toluene	<1.0		1.0		ug/L			03/22/16 12:00	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			03/22/16 12:00	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			03/22/16 12:00	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			03/22/16 12:00	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			03/22/16 12:00	1
Trichloroethene	<1.0		1.0		ug/L			03/22/16 12:00	1
Vinyl chloride	<1.0		1.0		ug/L			03/22/16 12:00	1
Xylenes, Total	<1.0		1.0		ug/L			03/22/16 12:00	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*70 - 130*		*03/22/16 12:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*70 - 130*		*03/22/16 12:00*	*1*
Dibromofluoromethane (Surr)	*102*		*70 - 130*		*03/22/16 12:00*	*1*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*		*03/22/16 12:00*	*1*

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

Lab Sample ID: LCS 680-426058/5
Matrix: Water
Analysis Batch: 426058

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	266		ug/L		106	60 - 154
Benzene	50.0	50.2		ug/L		100	73 - 131
Bromoform	50.0	58.9		ug/L		118	69 - 135
Bromomethane	50.0	43.8		ug/L		88	20 - 180
2-Butanone (MEK)	250	256		ug/L		102	75 - 133
Carbon disulfide	50.0	49.3		ug/L		99	73 - 127
Carbon tetrachloride	50.0	50.4		ug/L		101	75 - 130
Chlorobenzene	50.0	47.7		ug/L		95	80 - 120
Chlorodibromomethane	50.0	49.9		ug/L		100	71 - 136
Chloroethane	50.0	49.9		ug/L		100	50 - 151
Chloroform	50.0	49.6		ug/L		99	79 - 122
Chloromethane	50.0	48.4		ug/L		97	63 - 126
cis-1,2-Dichloroethene	50.0	49.9		ug/L		100	80 - 122
cis-1,3-Dichloropropene	50.0	52.2		ug/L		104	80 - 133
1,2-Dichlorobenzene	50.0	45.7		ug/L		91	80 - 120
1,4-Dichlorobenzene	50.0	48.0		ug/L		96	80 - 120
Dichlorobromomethane	50.0	51.8		ug/L		104	77 - 129
1,1-Dichloroethane	50.0	47.5		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	50.4		ug/L		101	75 - 130
1,1-Dichloroethene	50.0	56.9		ug/L		114	74 - 125
1,2-Dichloropropane	50.0	53.0		ug/L		106	80 - 123
Ethylbenzene	50.0	52.0		ug/L		104	80 - 120
2-Hexanone	250	253		ug/L		101	70 - 141
Methylene Chloride	50.0	51.0		ug/L		102	76 - 129
4-Methyl-2-pentanone (MIBK)	250	237		ug/L		95	75 - 135
Styrene	50.0	57.3		ug/L		115	80 - 122
1,1,2,2-Tetrachloroethane	50.0	48.4		ug/L		97	72 - 128
Tetrachloroethene	50.0	48.4		ug/L		97	77 - 123
Toluene	50.0	50.4		ug/L		101	80 - 122
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	78 - 123
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	74 - 140
1,1,1-Trichloroethane	50.0	49.8		ug/L		100	74 - 128
1,1,2-Trichloroethane	50.0	47.5		ug/L		95	79 - 125
Trichloroethene	50.0	52.8		ug/L		106	80 - 123
Vinyl chloride	50.0	45.4		ug/L		91	68 - 132
Xylenes, Total	100	110		ug/L		110	80 - 120

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

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

Lab Sample ID: LCSD 680-426058/6
Matrix: Water
Analysis Batch: 426058

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	288		ug/L		115	60 - 154	8	40
Benzene	50.0	49.3		ug/L		99	73 - 131	2	30
Bromoform	50.0	59.4		ug/L		119	69 - 135	1	20
Bromomethane	50.0	47.7		ug/L		95	20 - 180	8	40
2-Butanone (MEK)	250	266		ug/L		107	75 - 133	4	30
Carbon disulfide	50.0	41.9		ug/L		84	73 - 127	16	20
Carbon tetrachloride	50.0	49.0		ug/L		98	75 - 130	3	20
Chlorobenzene	50.0	48.4		ug/L		97	80 - 120	2	20
Chlorodibromomethane	50.0	45.5		ug/L		91	71 - 136	9	20
Chloroethane	50.0	49.2		ug/L		98	50 - 151	1	30
Chloroform	50.0	48.1		ug/L		96	79 - 122	3	20
Chloromethane	50.0	47.8		ug/L		96	63 - 126	1	30
cis-1,2-Dichloroethene	50.0	48.0		ug/L		96	80 - 122	4	20
cis-1,3-Dichloropropene	50.0	47.0		ug/L		94	80 - 133	10	20
1,2-Dichlorobenzene	50.0	54.1		ug/L		108	80 - 120	17	20
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120	3	20
Dichlorobromomethane	50.0	48.4		ug/L		97	77 - 129	7	20
1,1-Dichloroethane	50.0	46.4		ug/L		93	80 - 120	2	20
1,2-Dichloroethane	50.0	49.0		ug/L		98	75 - 130	3	20
1,1-Dichloroethene	50.0	57.2		ug/L		114	74 - 125	1	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 123	10	20
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120	2	20
2-Hexanone	250	233		ug/L		93	70 - 141	9	40
Methylene Chloride	50.0	45.4		ug/L		91	76 - 129	12	20
4-Methyl-2-pentanone (MIBK)	250	217		ug/L		87	75 - 135	9	30
Styrene	50.0	56.5		ug/L		113	80 - 122	1	20
1,1,2,2-Tetrachloroethane	50.0	53.1		ug/L		106	72 - 128	9	20
Tetrachloroethene	50.0	43.7		ug/L		87	77 - 123	10	20
Toluene	50.0	44.8		ug/L		90	80 - 122	12	20
trans-1,2-Dichloroethene	50.0	49.2		ug/L		98	78 - 123	1	20
trans-1,3-Dichloropropene	50.0	47.9		ug/L		96	74 - 140	9	20
1,1,1-Trichloroethane	50.0	48.0		ug/L		96	74 - 128	4	20
1,1,2-Trichloroethane	50.0	42.7		ug/L		85	79 - 125	11	20
Trichloroethene	50.0	47.8		ug/L		96	80 - 123	10	20
Vinyl chloride	50.0	46.0		ug/L		92	68 - 132	1	30
Xylenes, Total	100	108		ug/L		108	80 - 120	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*86*		*70 - 130*
1,2-Dichloroethane-d4 (Surr)	*97*		*70 - 130*
Dibromofluoromethane (Surr)	*98*		*70 - 130*
4-Bromofluorobenzene (Surr)	*97*		*70 - 130*

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Client Sample ID: SW-3 — Lab Sample ID: 680-122921-1

Date Collected: 03/10/16 11:05 — **Matrix: Water**
Date Received: 03/11/16 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	426058	03/22/16 17:21	DAS	TAL SAV

Client Sample ID: SW-4 — Lab Sample ID: 680-122921-2

Date Collected: 03/10/16 11:10 — **Matrix: Water**
Date Received: 03/11/16 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	426058	03/22/16 17:44	DAS	TAL SAV

Client Sample ID: SW-5 — Lab Sample ID: 680-122921-3

Date Collected: 03/10/16 11:30 — **Matrix: Water**
Date Received: 03/11/16 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	426058	03/22/16 18:07	DAS	TAL SAV

Client Sample ID: SW-6 — Lab Sample ID: 680-122921-4

Date Collected: 03/10/16 11:45 — **Matrix: Water**
Date Received: 03/11/16 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	426058	03/22/16 18:30	DAS	TAL SAV

Client Sample ID: Trip Blank 1 — Lab Sample ID: 680-122921-7

Date Collected: 03/10/16 00:00 — **Matrix: Water**
Date Received: 03/11/16 10:55

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	426058	03/22/16 16:58	DAS	TAL SAV

Laboratory References:

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

Charlotte Service Center

Serial Number 105505

ANALYSIS REQUEST AND CHAIN OF CUSTODY RECORD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404

Website: www.testamericainc.com
Phone: (912) 354-7858
Fax: (912) 352-0165

Alternate Laboratory Name/Location

Phone:
Fax:

~~PROJECT REFERENCE~~ NO# OH008000-NC08.15400	PROJECT NO. 60801233	PROJECT LOCATION (STATE) NC	PAGE 1 OF 1
TAL (LAB) PROJECT MANAGER JERRY LANIER	P.O. NUMBER N/A	CONTRACT NO. —	STANDARD REPORT DELIVERY ○
CLIENT (SITE) PM RYAN GERBER	CLIENT PHONE —	CLIENT FAX —	DATE DUE
CLIENT NAME ARCADIS	CLIENT E-MAIL rgerber@arcadis-us.com		EXPEDITED REPORT DELIVERY (SURCHARGE) ○
CLIENT ADDRESS			DATE DUE
COMPANY CONTRACTING THIS WORK (if applicable) ANTEA GROUP			NUMBER OF COOLERS SUBMITTED PER SHIPMENT: 1

REQUIRED ANALYSIS: 8260B-(MOD) TCL SUBLIST + 1,2-DICHLOROBENZENE

SAMPLE DATE	SAMPLE TIME	SAMPLE IDENTIFICATION	COMPOSITE (C) OR GRAB (G) INDICATE	AQUEOUS (WATER)	SOLID OR SEMISOLID	AIR	NONAQUEOUS LIQUID (OIL, SOLVENT, ...)	NUMBER OF CONTAINERS SUBMITTED (HCl)	REMARKS
3/10/16	1105	SW-3	G	X				3	
	1110	SW-4							
	1130	SW-5							
	1145	SW-6							
	1045	SW-SWAN-1							
	—	DUP-1							
	—	TRIP BLANK 1	—					2	

RELINQUISHED BY: (SIGNATURE)	DATE	TIME	RELINQUISHED BY: (SIGNATURE)	DATE	TIME	TIME
[signature]			CBonham	3/10/16	1715	
RECEIVED BY: (SIGNATURE)	DATE	TIME	RECEIVED BY: (SIGNATURE)	DATE	TIME	TIME
CBonham	3/10/16	1440				

680-122921 Chain of Custody

LABORATORY USE ONLY

RECEIVED FOR LABORATORY BY. (SIGNATURE)	DATE	TIME	CUSTODY INTACT	CUSTODY SEAL NO.	SAVANNAH LOG NO.	LABORATORY REMARKS
[signature]	3/11/16	10:55	YES ○ NO ○		680-122921	2.4/2.8

TAL8240-680 (1008)

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-122921-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-16
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-16
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	803	06-30-16
Guam	State Program	9	15-005r	04-16-16 *
Hawaii	State Program	9	N/A	06-30-16
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-16
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-16
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-16
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-16
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-16
Michigan	State Program	5	9925	06-30-16
Mississippi	State Program	4	N/A	06-30-16
Nebraska	State Program	7	TestAmerica-Savannah	06-30-16
New Jersey	NELAP	2	GA769	06-30-16
New Mexico	State Program	6	N/A	06-30-16
New York	NELAP	2	10842	03-31-16 *
North Carolina (DW)	State Program	4	13701	07-31-16
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-16
Pennsylvania	NELAP	3	68-00474	06-30-16
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-16
Tennessee	State Program	4	TN02961	06-30-16
Texas	NELAP	6	T104704185-14-7	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-16
Washington	State Program	10	C805	06-10-16
West Virginia (DW)	State Program	3	9950C	12-31-16
West Virginia DEP	State Program	3	094	06-30-16
Wisconsin	State Program	5	999819810	08-31-16
Wyoming	State Program	8	8TMS-L	06-30-16

* Certification renewal pending - certification considered valid.

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-130081-1
Client Project/Site: Ashland Greensboro Monitoring Wells

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

Attn: Mr. Chris Kalinowski

Authorized for release by:
9/29/2016 2:25:06 PM

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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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Job ID: 680-130081-1

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ashland Greensboro Monitoring Wells

Report Number: 680-130081-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 09/22/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.7º C and 2.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples MW-3 (680-130081-1), MW-6R (680-130081-2), MW-7S (680-130081-3), MW-7M (680-130081-4), MW-7D (680-130081-5), MW-7BR (680-130081-6), MW-11 (680-130081-7), MW-12 (680-130081-8), MW-12D (680-130081-9), MW-16 (680-130081-10), MW-17D (680-130081-11), MW-19 (680-130081-12), MW-22 (680-130081-13), MW-22BR (680-130081-14), MW-27S (680-130081-15), MW-27D (680-130081-16), MW-29S (680-130081-17), MW-29D (680-130081-18), MW-30 (680-130081-19), EB-1 (680-130081-20), IDW-1 (680-130081-21), DUP-1 (680-130081-22), DUP-2 (680-130081-23) and Trip Blank (680-130081-24) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/26/2016, 09/27/2016 and 09/28/2016.

Chloromethane failed the recovery criteria low for LCS 680-451182/3. Bromoform failed the recovery criteria high for LCSD 680-451182/4. Methylene Chloride exceeded the RPD limit. This is not indicative of a systematic control problem because this was a random marginal exceedance. Qualified results have been reported.

Refer to the QC report for details.

Samples MW-3 (680-130081-1)[250X], MW-6R (680-130081-2)[500X], MW-7M (680-130081-4)[20X], MW-7M (680-130081-4)[50X], MW-7D (680-130081-5)[50X], MW-7BR (680-130081-6)[200X], MW-11 (680-130081-7)[200X], MW-12D (680-130081-9)[50X], MW-16 (680-130081-10)[1000X], MW-17D (680-130081-11)[25X], MW-19 (680-130081-12)[200X], MW-22 (680-130081-13)[10X], MW-22BR (680-130081-14)[10X], MW-22BR (680-130081-14)[2X], MW-27S (680-130081-15)[10X], MW-27D (680-130081-16)[20X], MW-29D (680-130081-18)[5X], IDW-1 (680-130081-21)[100X], DUP-1 (680-130081-22)[50X] and DUP-2 (680-130081-23)[500X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-451349.

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

SEMIVOLATILE ORGANIC COMPOUNDS (GC/MS) - LOW LEVEL
Samples MW-6R (680-130081-2), MW-7S (680-130081-3), MW-7D (680-130081-5), MW-11 (680-130081-7), MW-12D (680-130081-9) and DUP-1 (680-130081-22) were analyzed for Semivolatile Organic Compounds (GC/MS) - Low level in accordance with EPA SW-846 Method 8270D. The samples were prepared on 09/23/2016 and analyzed on 09/25/2016 and 09/26/2016.

Surrogate recovery was outside acceptance limits for the following matrix spike/matrix spike duplicate (MS/MSD) sample:

Job ID: 680-130081-1 (Continued)

Laboratory: TestAmerica Savannah (Continued)

(680-130081-B-2-B MSD). The parent sample's surrogate recovery was within limits. The MS/MSD sample has been qualified and reported.

Six surrogates are used for this analysis. The laboratory's SOP allows one acid and one base of these surrogates to be outside acceptance criteria without performing re-extraction/re-analysis. The following sample contained an allowable number of surrogate compounds outside limits: MW-6R (680-130081-2). These results have been reported and qualified.

The laboratory control sample (LCS) for preparation batch 680-450827 and analytical batch 680-451016 recovered outside control limits for the following analyte(s): 3,3'-Dichlorobenzidine. This analyte has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed.

Several analytes failed the recovery criteria low for the MSD of sample MW-6RMSD (680-130081-2) in batch 680-451016. Several analytes exceeded the RPD limit.

Refer to the QC report for details.

Samples MW-6R (680-130081-2)[50X], MW-7D (680-130081-5)[5X], MW-11 (680-130081-7)[20X], MW-12D (680-130081-9)[50X] and DUP-1 (680-130081-22)[50X] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-130081-1	MW-3	Water	09/20/16 10:50	09/22/16 09:18
680-130081-2	MW-6R	Water	09/20/16 13:40	09/22/16 09:18
680-130081-3	MW-7S	Water	09/20/16 12:25	09/22/16 09:18
680-130081-4	MW-7M	Water	09/20/16 12:00	09/22/16 09:18
680-130081-5	MW-7D	Water	09/20/16 11:25	09/22/16 09:18
680-130081-6	MW-7BR	Water	09/20/16 15:20	09/22/16 09:18
680-130081-7	MW-11	Water	09/19/16 17:35	09/22/16 09:18
680-130081-8	MW-12	Water	09/20/16 09:20	09/22/16 09:18
680-130081-9	MW-12D	Water	09/20/16 08:45	09/22/16 09:18
680-130081-10	MW-16	Water	09/20/16 13:05	09/22/16 09:18
680-130081-11	MW-17D	Water	09/19/16 08:15	09/22/16 09:18
680-130081-12	MW-19	Water	09/20/16 10:15	09/22/16 09:18
680-130081-13	MW-22	Water	09/20/16 07:40	09/22/16 09:18
680-130081-14	MW-22BR	Water	09/20/16 07:18	09/22/16 09:18
680-130081-15	MW-27S	Water	09/20/16 10:40	09/22/16 09:18
680-130081-16	MW-27D	Water	09/20/16 11:30	09/22/16 09:18
680-130081-17	MW-29S	Water	09/20/16 13:00	09/22/16 09:18
680-130081-18	MW-29D	Water	09/20/16 13:30	09/22/16 09:18
680-130081-19	MW-30	Water	09/20/16 14:20	09/22/16 09:18
680-130081-20	EB-1	Water	09/20/16 13:35	09/22/16 09:18
680-130081-21	IDW-1	Water	09/20/16 15:30	09/22/16 09:18
680-130081-22	DUP-1	Water	09/20/16 00:00	09/22/16 09:18
680-130081-23	DUP-2	Water	09/20/16 00:00	09/22/16 09:18
680-130081-24	Trip Blank	Water	09/20/16 00:00	09/22/16 09:18

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV
8270D LL	Semivolatile Organic Compounds by GC/MS - Low Level	SW846	TAL SAV

Protocol References:

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

Laboratory References:

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

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
*	RPD of the LCS and LCSD exceeds the control limits

GC/MS Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.
X	Surrogate is outside control limits
*	LCS or LCSD 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.
E	Result exceeded calibration range.
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)

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-3 — Lab Sample ID: 680-130081-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	6700		250		ug/L	250		8260B	Total/NA
1,1-Dichloroethane	390		250		ug/L	250		8260B	Total/NA
1,1-Dichloroethene	1800		250		ug/L	250		8260B	Total/NA
Tetrachloroethene	15000		250		ug/L	250		8260B	Total/NA
Trichloroethene	6100		250		ug/L	250		8260B	Total/NA

Client Sample ID: MW-6R — Lab Sample ID: 680-130081-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7400		500		ug/L	500		8260B	Total/NA
1,2-Dichlorobenzene	2300		500		ug/L	500		8260B	Total/NA
Tetrachloroethene	20000		500		ug/L	500		8260B	Total/NA
Toluene	4000		500		ug/L	500		8260B	Total/NA
1,1,1-Trichloroethane	3600		500		ug/L	500		8260B	Total/NA
Trichloroethene	880		500		ug/L	500		8260B	Total/NA
Xylenes, Total	2600		500		ug/L	500		8260B	Total/NA
2-Methylnaphthalene	2.1	F2	0.20		ug/L	1		8270D LL	Total/NA
Acenaphthene	1.4	F2	0.20		ug/L	1		8270D LL	Total/NA
Anthracene	0.31	F1 F2	0.20		ug/L	1		8270D LL	Total/NA
Fluorene	0.69	F2	0.20		ug/L	1		8270D LL	Total/NA
Naphthalene	14	F1	0.20		ug/L	1		8270D LL	Total/NA
Phenanthrene	0.79	F1 F2	0.20		ug/L	1		8270D LL	Total/NA
2-Methylphenol	4.2	F1 F2	2.0		ug/L	1		8270D LL	Total/NA
3 & 4 Methylphenol	4.7	F1 F2	2.0		ug/L	1		8270D LL	Total/NA
Phenol	1.4		0.98		ug/L	1		8270D LL	Total/NA
Di-n-butyl phthalate	8.5	F1 F2	0.98		ug/L	1		8270D LL	Total/NA
1,2,4-Trichlorobenzene - DL	210		49		ug/L	50		8270D LL	Total/NA
1,2-Dichlorobenzene - DL	880		49		ug/L	50		8270D LL	Total/NA
1,4-Dichlorobenzene - DL	98		49		ug/L	50		8270D LL	Total/NA

Client Sample ID: MW-7S — Lab Sample ID: 680-130081-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	1.7		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-7M — Lab Sample ID: 680-130081-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	93		20		ug/L	20		8260B	Total/NA
cis-1,2-Dichloroethene	580		20		ug/L	20		8260B	Total/NA
1,2-Dichlorobenzene	190		20		ug/L	20		8260B	Total/NA
1,4-Dichlorobenzene	20		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethane	440		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	1100		20		ug/L	20		8260B	Total/NA
1,1,1-Trichloroethane	420		20		ug/L	20		8260B	Total/NA
Trichloroethene	540		20		ug/L	20		8260B	Total/NA
Xylenes, Total	490		20		ug/L	20		8260B	Total/NA
Tetrachloroethene - DL	5500		50		ug/L	50		8260B	Total/NA

Client Sample ID: MW-7D — Lab Sample ID: 680-130081-5

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-7D (Continued) — Lab Sample ID: 680-130081-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	170		50		ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	60		50		ug/L	50		8260B	Total/NA
1,1-Dichloroethane	76		50		ug/L	50		8260B	Total/NA
1,1-Dichloroethene	330		50		ug/L	50		8260B	Total/NA
Tetrachloroethene	3000		50		ug/L	50		8260B	Total/NA
Trichloroethene	400		50		ug/L	50		8260B	Total/NA
Xylenes, Total	73		50		ug/L	50		8260B	Total/NA
2-Methylnaphthalene	2.8		0.19		ug/L	1		8270D LL	Total/NA
Naphthalene	6.9		0.19		ug/L	1		8270D LL	Total/NA
1,3-Dichlorobenzene	1.1		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dichlorobenzene	4.4		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dioxane	15		1.9		ug/L	1		8270D LL	Total/NA
1,2,4-Trichlorobenzene - DL	34		4.8		ug/L	5		8270D LL	Total/NA
1,2-Dichlorobenzene - DL	47		4.8		ug/L	5		8270D LL	Total/NA

Client Sample ID: MW-7BR — Lab Sample ID: 680-130081-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	9700		200		ug/L	200		8260B	Total/NA
1,2-Dichlorobenzene	1700		200		ug/L	200		8260B	Total/NA
1,1-Dichloroethane	1200		200		ug/L	200		8260B	Total/NA
1,1-Dichloroethene	920		200		ug/L	200		8260B	Total/NA
Ethylbenzene	1300		200		ug/L	200		8260B	Total/NA
Tetrachloroethene	640		200		ug/L	200		8260B	Total/NA
Toluene	7200		200		ug/L	200		8260B	Total/NA
Trichloroethene	850		200		ug/L	200		8260B	Total/NA
Vinyl chloride	2400		200		ug/L	200		8260B	Total/NA
Xylenes, Total	4800		200		ug/L	200		8260B	Total/NA

Client Sample ID: MW-11 — Lab Sample ID: 680-130081-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7400		200		ug/L	200		8260B	Total/NA
1,1-Dichloroethene	2200		200		ug/L	200		8260B	Total/NA
Tetrachloroethene	5700		200		ug/L	200		8260B	Total/NA
Trichloroethene	12000		200		ug/L	200		8260B	Total/NA
1,2,4-Trichlorobenzene	1.6		0.96		ug/L	1		8270D LL	Total/NA
1,2-Dichlorobenzene	2.6		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dichlorobenzene	3.1		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dioxane - DL	280		38		ug/L	20		8270D LL	Total/NA

Client Sample ID: MW-12 — Lab Sample ID: 680-130081-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	9.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	21		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-12D — Lab Sample ID: 680-130081-9

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-12D (Continued) — Lab Sample ID: 680-130081-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	350		50		ug/L	50		8260B	Total/NA
1,1-Dichloroethene	280		50		ug/L	50		8260B	Total/NA
Tetrachloroethene	880		50		ug/L	50		8260B	Total/NA
Trichloroethene	5100		50		ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	1.5		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dioxane - DL	530		96		ug/L	50		8270D LL	Total/NA

Client Sample ID: MW-16 — Lab Sample ID: 680-130081-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	53000		1000		ug/L	1000		8260B	Total/NA

Client Sample ID: MW-17D — Lab Sample ID: 680-130081-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	270		25		ug/L	25		8260B	Total/NA
1,1-Dichloroethene	100		25		ug/L	25		8260B	Total/NA
Tetrachloroethene	3000		25		ug/L	25		8260B	Total/NA
Trichloroethene	1400		25		ug/L	25		8260B	Total/NA

Client Sample ID: MW-19 — Lab Sample ID: 680-130081-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	220		200		ug/L	200		8260B	Total/NA
cis-1,2-Dichloroethene	2300		200		ug/L	200		8260B	Total/NA
1,1-Dichloroethene	780		200		ug/L	200		8260B	Total/NA
Tetrachloroethene	20000		200		ug/L	200		8260B	Total/NA
Trichloroethene	4500		200		ug/L	200		8260B	Total/NA

Client Sample ID: MW-22 — Lab Sample ID: 680-130081-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	490		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethane	13		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	200		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	1200		10		ug/L	10		8260B	Total/NA
Trichloroethene	560		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-22BR — Lab Sample ID: 680-130081-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	28		20		ug/L	2		8260B	Total/NA
cis-1,2-Dichloroethene	57		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethane	9.4		2.0		ug/L	2		8260B	Total/NA
1,1-Dichloroethene	130		2.0		ug/L	2		8260B	Total/NA
Trichloroethene	260		2.0		ug/L	2		8260B	Total/NA
Tetrachloroethene - DL	370		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-27S — Lab Sample ID: 680-130081-15

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-27S (Continued) — Lab Sample ID: 680-130081-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	71		10		ug/L	10		8260B	Total/NA
1,1-Dichloroethene	76		10		ug/L	10		8260B	Total/NA
Tetrachloroethene	1100		10		ug/L	10		8260B	Total/NA
Trichloroethene	540		10		ug/L	10		8260B	Total/NA

Client Sample ID: MW-27D — Lab Sample ID: 680-130081-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	250		20		ug/L	20		8260B	Total/NA
1,1-Dichloroethene	130		20		ug/L	20		8260B	Total/NA
Tetrachloroethene	1200		20		ug/L	20		8260B	Total/NA
Trichloroethene	860		20		ug/L	20		8260B	Total/NA

Client Sample ID: MW-29S — Lab Sample ID: 680-130081-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	17		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethane	1.8		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	8.1		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	80		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	32		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: MW-29D — Lab Sample ID: 680-130081-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	81		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethane	8.0		5.0		ug/L	5		8260B	Total/NA
1,1-Dichloroethene	39		5.0		ug/L	5		8260B	Total/NA
Tetrachloroethene	390		5.0		ug/L	5		8260B	Total/NA
Trichloroethene	160		5.0		ug/L	5		8260B	Total/NA

Client Sample ID: MW-30 — Lab Sample ID: 680-130081-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	11		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	5.3		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: EB-1 — Lab Sample ID: 680-130081-20

No Detections.

Client Sample ID: IDW-1 — Lab Sample ID: 680-130081-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1700		100		ug/L	100		8260B	Total/NA
1,2-Dichlorobenzene	300		100		ug/L	100		8260B	Total/NA
1,1-Dichloroethane	250		100		ug/L	100		8260B	Total/NA
1,1-Dichloroethene	240		100		ug/L	100		8260B	Total/NA
Ethylbenzene	210		100		ug/L	100		8260B	Total/NA
Tetrachloroethene	1000		100		ug/L	100		8260B	Total/NA
Toluene	1100		100		ug/L	100		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: IDW-1 (Continued) — Lab Sample ID: 680-130081-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	170		100		ug/L	100		8260B	Total/NA
Trichloroethene	400		100		ug/L	100		8260B	Total/NA
Vinyl chloride	400		100		ug/L	100		8260B	Total/NA
Xylenes, Total	740		100		ug/L	100		8260B	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 680-130081-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	340		50		ug/L	50		8260B	Total/NA
1,1-Dichloroethene	250		50		ug/L	50		8260B	Total/NA
Tetrachloroethene	850		50		ug/L	50		8260B	Total/NA
Trichloroethene	4500		50		ug/L	50		8260B	Total/NA
1,2-Dichlorobenzene	1.2		0.96		ug/L	1		8270D LL	Total/NA
1,4-Dioxane - DL	470		96		ug/L	50		8270D LL	Total/NA

Client Sample ID: DUP-2 — Lab Sample ID: 680-130081-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Tetrachloroethene	51000		500		ug/L	500		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-130081-24

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-3

Date Collected: 09/20/16 10:50
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2500		2500		ug/L			09/26/16 12:53	250
Benzene	<250		250		ug/L			09/26/16 12:53	250
Bromoform	<250		250		ug/L			09/26/16 12:53	250
Bromomethane	<1300		1300		ug/L			09/26/16 12:53	250
2-Butanone (MEK)	<2500		2500		ug/L			09/26/16 12:53	250
Carbon disulfide	<500		500		ug/L			09/26/16 12:53	250
Carbon tetrachloride	<250		250		ug/L			09/26/16 12:53	250
Chlorobenzene	<250		250		ug/L			09/26/16 12:53	250
Chlorodibromomethane	<250		250		ug/L			09/26/16 12:53	250
Chloroethane	<1300		1300		ug/L			09/26/16 12:53	250
Chloroform	<250		250		ug/L			09/26/16 12:53	250
Chloromethane	<250		250		ug/L			09/26/16 12:53	250
cis-1,2-Dichloroethene	**6700**		250		ug/L			09/26/16 12:53	250
cis-1,3-Dichloropropene	<250		250		ug/L			09/26/16 12:53	250
1,2-Dichlorobenzene	<250		250		ug/L			09/26/16 12:53	250
1,4-Dichlorobenzene	<250		250		ug/L			09/26/16 12:53	250
Dichlorobromomethane	<250		250		ug/L			09/26/16 12:53	250
1,1-Dichloroethane	**390**		250		ug/L			09/26/16 12:53	250
1,2-Dichloroethane	<250		250		ug/L			09/26/16 12:53	250
1,1-Dichloroethene	**1800**		250		ug/L			09/26/16 12:53	250
1,2-Dichloropropane	<250		250		ug/L			09/26/16 12:53	250
Ethylbenzene	<250		250		ug/L			09/26/16 12:53	250
2-Hexanone	<2500		2500		ug/L			09/26/16 12:53	250
Methylene Chloride	<1300		1300		ug/L			09/26/16 12:53	250
4-Methyl-2-pentanone (MIBK)	<2500		2500		ug/L			09/26/16 12:53	250
Styrene	<250		250		ug/L			09/26/16 12:53	250
1,1,2,2-Tetrachloroethane	<250		250		ug/L			09/26/16 12:53	250
Tetrachloroethene	**15000**		250		ug/L			09/26/16 12:53	250
Toluene	<250		250		ug/L			09/26/16 12:53	250
trans-1,2-Dichloroethene	<250		250		ug/L			09/26/16 12:53	250
trans-1,3-Dichloropropene	<250		250		ug/L			09/26/16 12:53	250
1,1,1-Trichloroethane	<250		250		ug/L			09/26/16 12:53	250
1,1,2-Trichloroethane	<250		250		ug/L			09/26/16 12:53	250
Trichloroethene	**6100**		250		ug/L			09/26/16 12:53	250
Vinyl chloride	<250		250		ug/L			09/26/16 12:53	250
Xylenes, Total	<250		250		ug/L			09/26/16 12:53	250

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/16 12:53*	*250*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*09/26/16 12:53*	*250*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*09/26/16 12:53*	*250*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/26/16 12:53*	*250*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-6R

Date Collected: 09/20/16 13:40
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5000		5000		ug/L			09/26/16 13:13	500
Benzene	<500		500		ug/L			09/26/16 13:13	500
Bromoform	<500		500		ug/L			09/26/16 13:13	500
Bromomethane	<2500		2500		ug/L			09/26/16 13:13	500
2-Butanone (MEK)	<5000		5000		ug/L			09/26/16 13:13	500
Carbon disulfide	<1000		1000		ug/L			09/26/16 13:13	500
Carbon tetrachloride	<500		500		ug/L			09/26/16 13:13	500
Chlorobenzene	<500		500		ug/L			09/26/16 13:13	500
Chlorodibromomethane	<500		500		ug/L			09/26/16 13:13	500
Chloroethane	<2500		2500		ug/L			09/26/16 13:13	500
Chloroform	<500		500		ug/L			09/26/16 13:13	500
Chloromethane	<500		500		ug/L			09/26/16 13:13	500
cis-1,2-Dichloroethene	**7400**		500		ug/L			09/26/16 13:13	500
cis-1,3-Dichloropropene	<500		500		ug/L			09/26/16 13:13	500
1,2-Dichlorobenzene	**2300**		500		ug/L			09/26/16 13:13	500
1,4-Dichlorobenzene	<500		500		ug/L			09/26/16 13:13	500
Dichlorobromomethane	<500		500		ug/L			09/26/16 13:13	500
1,1-Dichloroethane	<500		500		ug/L			09/26/16 13:13	500
1,2-Dichloroethane	<500		500		ug/L			09/26/16 13:13	500
1,1-Dichloroethene	<500		500		ug/L			09/26/16 13:13	500
1,2-Dichloropropane	<500		500		ug/L			09/26/16 13:13	500
Ethylbenzene	<500		500		ug/L			09/26/16 13:13	500
2-Hexanone	<5000		5000		ug/L			09/26/16 13:13	500
Methylene Chloride	<2500		2500		ug/L			09/26/16 13:13	500
4-Methyl-2-pentanone (MIBK)	<5000		5000		ug/L			09/26/16 13:13	500
Styrene	<500		500		ug/L			09/26/16 13:13	500
1,1,2,2-Tetrachloroethane	<500		500		ug/L			09/26/16 13:13	500
Tetrachloroethene	**20000**		500		ug/L			09/26/16 13:13	500
Toluene	**4000**		500		ug/L			09/26/16 13:13	500
trans-1,2-Dichloroethene	<500		500		ug/L			09/26/16 13:13	500
trans-1,3-Dichloropropene	<500		500		ug/L			09/26/16 13:13	500
1,1,1-Trichloroethane	**3600**		500		ug/L			09/26/16 13:13	500
1,1,2-Trichloroethane	<500		500		ug/L			09/26/16 13:13	500
Trichloroethene	**880**		500		ug/L			09/26/16 13:13	500
Vinyl chloride	<500		500		ug/L			09/26/16 13:13	500
Xylenes, Total	**2600**		500		ug/L			09/26/16 13:13	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/16 13:13*	*500*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*		*09/26/16 13:13*	*500*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/26/16 13:13*	*500*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/26/16 13:13*	*500*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-6R
Date Collected: 09/20/16 13:40
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.1**	**F2**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Acenaphthene	**1.4**	**F2**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Acenaphthylene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Anthracene	**0.31**	**F1 F2**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Benzo[a]anthracene	<0.20	F1 F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Benzo[a]pyrene	<0.20	F1 F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Benzo[b]fluoranthene	<0.20	F1 F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Benzo[g,h,i]perylene	<0.20	F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Benzo[k]fluoranthene	<0.20	F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Chrysene	<0.20	F1 F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Dibenz(a,h)anthracene	<0.20	F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Fluorene	**0.69**	**F2**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Fluoranthene	<0.20	F1 F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Indeno[1,2,3-cd]pyrene	<0.20	F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Naphthalene	**14**	**F1**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Phenanthrene	**0.79**	**F1 F2**	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Pyrene	<0.20	F2	0.20		ug/L		09/23/16 13:09	09/25/16 18:59	1
Bis(2-ethylhexyl) phthalate	<4.9		4.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
1,4-Dioxane	<2.0	F2	2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
bis(chloroisopropyl) ether	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4,5-Trichlorophenol	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4,6-Trichlorophenol	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4-Dichlorophenol	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4-Dimethylphenol	<2.0	F2	2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4-Dinitrophenol	<9.8		9.8		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,4-Dinitrotoluene	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2,6-Dinitrotoluene	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2-Chloronaphthalene	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2-Chlorophenol	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2-Methylphenol	**4.2**	**F1 F2**	2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
2-Nitroaniline	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
2-Nitrophenol	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
3 & 4 Methylphenol	**4.7**	**F1 F2**	2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
3,3'-Dichlorobenzidine	<20	* F1	20		ug/L		09/23/16 13:09	09/25/16 18:59	1
3-Nitroaniline	<4.9	F1 F2	4.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
4,6-Dinitro-2-methylphenol	<4.9	F2	4.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Bromophenyl phenyl ether	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Chloro-3-methylphenol	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Chloroaniline	<3.9		3.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Chlorophenyl phenyl ether	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Nitroaniline	<4.9	F1	4.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
4-Nitrophenol	<7.8	F2	7.8		ug/L		09/23/16 13:09	09/25/16 18:59	1
Bis(2-chloroethoxy)methane	<0.98		0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Bis(2-chloroethyl)ether	<0.98		0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Butyl benzyl phthalate	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Carbazole	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
Dibenzofuran	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Diethyl phthalate	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Dimethyl phthalate	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1

Client Sample ID: MW-6R

Lab Sample ID: 680-130081-2

Date Collected: 09/20/16 13:40

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexachlorobenzene	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Hexachlorobutadiene	<0.98		0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Hexachlorocyclopentadiene	<2.0	F1	2.0		ug/L		09/23/16 13:09	09/25/16 18:59	1
Hexachloroethane	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Isophorone	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Nitrobenzene	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Pentachlorophenol	<4.9	F2	4.9		ug/L		09/23/16 13:09	09/25/16 18:59	1
Phenol	**1.4**		0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Di-n-octyl phthalate	<0.98	F1 F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
N-Nitrosodi-n-propylamine	<0.98	F2	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
N-Nitrosodiphenylamine	<0.98		0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1
Di-n-butyl phthalate	**8.5**	**F1 F2**	0.98		ug/L		09/23/16 13:09	09/25/16 18:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*42*		*20 - 113*	*09/23/16 13:09*	*09/25/16 18:59*	*1*
Nitrobenzene-d5	*41*		*37 - 103*	*09/23/16 13:09*	*09/25/16 18:59*	*1*
Terphenyl-d14	*39*		*22 - 121*	*09/23/16 13:09*	*09/25/16 18:59*	*1*
2,4,6-Tribromophenol	*46*		*39 - 133*	*09/23/16 13:09*	*09/25/16 18:59*	*1*
2-Fluorophenol	*14*	*X*	*18 - 112*	*09/23/16 13:09*	*09/25/16 18:59*	*1*
2-Fluorobiphenyl	*38*		*31 - 107*	*09/23/16 13:09*	*09/25/16 18:59*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-6R
Date Collected: 09/20/16 13:40
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-2
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	**210**		49		ug/L		09/23/16 13:09	09/26/16 17:54	50
1,2-Dichlorobenzene	**880**		49		ug/L		09/23/16 13:09	09/26/16 17:54	50
1,3-Dichlorobenzene	<49		49		ug/L		09/23/16 13:09	09/26/16 17:54	50
1,4-Dichlorobenzene	**98**		49		ug/L		09/23/16 13:09	09/26/16 17:54	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7S

Date Collected: 09/20/16 12:25
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/26/16 13:34	1
Benzene	<1.0		1.0		ug/L			09/26/16 13:34	1
Bromoform	<1.0		1.0		ug/L			09/26/16 13:34	1
Bromomethane	<5.0		5.0		ug/L			09/26/16 13:34	1
2-Butanone (MEK)	<10		10		ug/L			09/26/16 13:34	1
Carbon disulfide	<2.0		2.0		ug/L			09/26/16 13:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/26/16 13:34	1
Chlorobenzene	<1.0		1.0		ug/L			09/26/16 13:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/26/16 13:34	1
Chloroethane	<5.0		5.0		ug/L			09/26/16 13:34	1
Chloroform	<1.0		1.0		ug/L			09/26/16 13:34	1
Chloromethane	<1.0		1.0		ug/L			09/26/16 13:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/26/16 13:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/26/16 13:34	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/26/16 13:34	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/26/16 13:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/26/16 13:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/26/16 13:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/26/16 13:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/26/16 13:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/26/16 13:34	1
Ethylbenzene	<1.0		1.0		ug/L			09/26/16 13:34	1
2-Hexanone	<10		10		ug/L			09/26/16 13:34	1
Methylene Chloride	<5.0		5.0		ug/L			09/26/16 13:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/26/16 13:34	1
Styrene	<1.0		1.0		ug/L			09/26/16 13:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/26/16 13:34	1
Tetrachloroethene	**1.7**		1.0		ug/L			09/26/16 13:34	1
Toluene	<1.0		1.0		ug/L			09/26/16 13:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/26/16 13:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/26/16 13:34	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/26/16 13:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/26/16 13:34	1
Trichloroethene	<1.0		1.0		ug/L			09/26/16 13:34	1
Vinyl chloride	<1.0		1.0		ug/L			09/26/16 13:34	1
Xylenes, Total	<1.0		1.0		ug/L			09/26/16 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/16 13:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*09/26/16 13:34*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/26/16 13:34*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/26/16 13:34*	*1*

Client Sample ID: MW-7S

Date Collected: 09/20/16 12:25
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Acenaphthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Acenaphthylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Chrysene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Fluorene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Naphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Phenanthrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:21	1
Bis(2-ethylhexyl) phthalate	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
1,2,4-Trichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
1,2-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
1,3-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
1,4-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
1,4-Dioxane	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
bis(chloroisopropyl) ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4,5-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4,6-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4-Dichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4-Dimethylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4-Dinitrophenol	<9.6		9.6		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,4-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2,6-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2-Chloronaphthalene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2-Chlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2-Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
2-Nitroaniline	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
2-Nitrophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
3 & 4 Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
3,3'-Dichlorobenzidine	<19	*	19		ug/L		09/23/16 13:09	09/25/16 19:21	1
3-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
4,6-Dinitro-2-methylphenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Bromophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Chloro-3-methylphenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Chloroaniline	<3.8		3.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Chlorophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
4-Nitrophenol	<7.7		7.7		ug/L		09/23/16 13:09	09/25/16 19:21	1
Bis(2-chloroethoxy)methane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Bis(2-chloroethyl)ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Butyl benzyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7S

Date Collected: 09/20/16 12:25
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-3

Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbazole	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
Dibenzofuran	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Diethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Dimethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Hexachlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Hexachlorobutadiene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Hexachlorocyclopentadiene	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:21	1
Hexachloroethane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Isophorone	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Nitrobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Pentachlorophenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:21	1
Phenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Di-n-octyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
N-Nitrosodi-n-propylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
N-Nitrosodiphenylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*68*		*20 - 113*	*09/23/16 13:09*	*09/25/16 19:21*	*1*
Nitrobenzene-d5	*82*		*37 - 103*	*09/23/16 13:09*	*09/25/16 19:21*	*1*
Terphenyl-d14	*83*		*22 - 121*	*09/23/16 13:09*	*09/25/16 19:21*	*1*
2,4,6-Tribromophenol	*85*		*39 - 133*	*09/23/16 13:09*	*09/25/16 19:21*	*1*
2-Fluorophenol	*70*		*18 - 112*	*09/23/16 13:09*	*09/25/16 19:21*	*1*
2-Fluorobiphenyl	*80*		*31 - 107*	*09/23/16 13:09*	*09/25/16 19:21*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7M

Lab Sample ID: 680-130081-4

Date Collected: 09/20/16 12:00
Date Received: 09/22/16 09:18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<200		200		ug/L			09/26/16 13:54	20
Benzene	<20		20		ug/L			09/26/16 13:54	20
Bromoform	<20		20		ug/L			09/26/16 13:54	20
Bromomethane	<100		100		ug/L			09/26/16 13:54	20
2-Butanone (MEK)	<200		200		ug/L			09/26/16 13:54	20
Carbon disulfide	<40		40		ug/L			09/26/16 13:54	20
Carbon tetrachloride	<20		20		ug/L			09/26/16 13:54	20
Chlorobenzene	<20		20		ug/L			09/26/16 13:54	20
Chlorodibromomethane	<20		20		ug/L			09/26/16 13:54	20
Chloroethane	<100		100		ug/L			09/26/16 13:54	20
Chloroform	**93**		20		ug/L			09/26/16 13:54	20
Chloromethane	<20		20		ug/L			09/26/16 13:54	20
cis-1,2-Dichloroethene	**580**		20		ug/L			09/26/16 13:54	20
cis-1,3-Dichloropropene	<20		20		ug/L			09/26/16 13:54	20
1,2-Dichlorobenzene	**190**		20		ug/L			09/26/16 13:54	20
1,4-Dichlorobenzene	**20**		20		ug/L			09/26/16 13:54	20
Dichlorobromomethane	<20		20		ug/L			09/26/16 13:54	20
1,1-Dichloroethane	**440**		20		ug/L			09/26/16 13:54	20
1,2-Dichloroethane	<20		20		ug/L			09/26/16 13:54	20
1,1-Dichloroethene	**1100**		20		ug/L			09/26/16 13:54	20
1,2-Dichloropropane	<20		20		ug/L			09/26/16 13:54	20
Ethylbenzene	<20		20		ug/L			09/26/16 13:54	20
2-Hexanone	<200		200		ug/L			09/26/16 13:54	20
Methylene Chloride	<100		100		ug/L			09/26/16 13:54	20
4-Methyl-2-pentanone (MIBK)	<200		200		ug/L			09/26/16 13:54	20
Styrene	<20		20		ug/L			09/26/16 13:54	20
1,1,2,2-Tetrachloroethane	<20		20		ug/L			09/26/16 13:54	20
Toluene	<20		20		ug/L			09/26/16 13:54	20
trans-1,2-Dichloroethene	<20		20		ug/L			09/26/16 13:54	20
trans-1,3-Dichloropropene	<20		20		ug/L			09/26/16 13:54	20
1,1,1-Trichloroethane	**420**		20		ug/L			09/26/16 13:54	20
1,1,2-Trichloroethane	<20		20		ug/L			09/26/16 13:54	20
Trichloroethene	**540**		20		ug/L			09/26/16 13:54	20
Vinyl chloride	<20		20		ug/L			09/26/16 13:54	20
Xylenes, Total	**490**		20		ug/L			09/26/16 13:54	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/26/16 13:54*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*09/26/16 13:54*	*20*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*09/26/16 13:54*	*20*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/26/16 13:54*	*20*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7M

Lab Sample ID: 680-130081-4

Date Collected: 09/20/16 12:00
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	5500		50		ug/L			09/28/16 12:46	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/28/16 12:46*	*50*
1,2-Dichloroethane-d4 (Surr)	*112*		*73 - 131*		*09/28/16 12:46*	*50*
Dibromofluoromethane (Surr)	*103*		*80 - 122*		*09/28/16 12:46*	*50*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/28/16 12:46*	*50*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7D

Date Collected: 09/20/16 11:25
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<500		500		ug/L			09/26/16 14:14	50
Benzene	<50		50		ug/L			09/26/16 14:14	50
Bromoform	<50		50		ug/L			09/26/16 14:14	50
Bromomethane	<250		250		ug/L			09/26/16 14:14	50
2-Butanone (MEK)	<500		500		ug/L			09/26/16 14:14	50
Carbon disulfide	<100		100		ug/L			09/26/16 14:14	50
Carbon tetrachloride	<50		50		ug/L			09/26/16 14:14	50
Chlorobenzene	<50		50		ug/L			09/26/16 14:14	50
Chlorodibromomethane	<50		50		ug/L			09/26/16 14:14	50
Chloroethane	<250		250		ug/L			09/26/16 14:14	50
Chloroform	<50		50		ug/L			09/26/16 14:14	50
Chloromethane	<50		50		ug/L			09/26/16 14:14	50
cis-1,2-Dichloroethene	**170**		50		ug/L			09/26/16 14:14	50
cis-1,3-Dichloropropene	<50		50		ug/L			09/26/16 14:14	50
1,2-Dichlorobenzene	**60**		50		ug/L			09/26/16 14:14	50
1,4-Dichlorobenzene	<50		50		ug/L			09/26/16 14:14	50
Dichlorobromomethane	<50		50		ug/L			09/26/16 14:14	50
1,1-Dichloroethane	**76**		50		ug/L			09/26/16 14:14	50
1,2-Dichloroethane	<50		50		ug/L			09/26/16 14:14	50
1,1-Dichloroethene	**330**		50		ug/L			09/26/16 14:14	50
1,2-Dichloropropane	<50		50		ug/L			09/26/16 14:14	50
Ethylbenzene	<50		50		ug/L			09/26/16 14:14	50
2-Hexanone	<500		500		ug/L			09/26/16 14:14	50
Methylene Chloride	<250		250		ug/L			09/26/16 14:14	50
4-Methyl-2-pentanone (MIBK)	<500		500		ug/L			09/26/16 14:14	50
Styrene	<50		50		ug/L			09/26/16 14:14	50
1,1,2,2-Tetrachloroethane	<50		50		ug/L			09/26/16 14:14	50
Tetrachloroethene	**3000**		50		ug/L			09/26/16 14:14	50
Toluene	<50		50		ug/L			09/26/16 14:14	50
trans-1,2-Dichloroethene	<50		50		ug/L			09/26/16 14:14	50
trans-1,3-Dichloropropene	<50		50		ug/L			09/26/16 14:14	50
1,1,1-Trichloroethane	<50		50		ug/L			09/26/16 14:14	50
1,1,2-Trichloroethane	<50		50		ug/L			09/26/16 14:14	50
Trichloroethene	**400**		50		ug/L			09/26/16 14:14	50
Vinyl chloride	<50		50		ug/L			09/26/16 14:14	50
Xylenes, Total	**73**		50		ug/L			09/26/16 14:14	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/16 14:14*	*50*
1,2-Dichloroethane-d4 (Surr)	*99*		*73 - 131*		*09/26/16 14:14*	*50*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/26/16 14:14*	*50*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/26/16 14:14*	*50*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7D
Date Collected: 09/20/16 11:25
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-5
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	**2.8**		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Acenaphthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Acenaphthylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Chrysene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Fluorene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Naphthalene	**6.9**		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Phenanthrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 19:44	1
Bis(2-ethylhexyl) phthalate	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
1,3-Dichlorobenzene	**1.1**		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
1,4-Dichlorobenzene	**4.4**		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
1,4-Dioxane	**15**		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
bis(chloroisopropyl) ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4,5-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4,6-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4-Dichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4-Dimethylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4-Dinitrophenol	<9.6		9.6		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,4-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2,6-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2-Chloronaphthalene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2-Chlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2-Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
2-Nitroaniline	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
2-Nitrophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
3 & 4 Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
3,3'-Dichlorobenzidine	<19	*	19		ug/L		09/23/16 13:09	09/25/16 19:44	1
3-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
4,6-Dinitro-2-methylphenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Bromophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Chloro-3-methylphenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Chloroaniline	<3.8		3.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Chlorophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
4-Nitrophenol	<7.7		7.7		ug/L		09/23/16 13:09	09/25/16 19:44	1
Bis(2-chloroethoxy)methane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Bis(2-chloroethyl)ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Butyl benzyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Carbazole	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
Dibenzofuran	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1

Client Sample ID: MW-7D

Lab Sample ID: 680-130081-5

Date Collected: 09/20/16 11:25

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Dimethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Hexachlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Hexachlorobutadiene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Hexachlorocyclopentadiene	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 19:44	1
Hexachloroethane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Isophorone	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Nitrobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Pentachlorophenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 19:44	1
Phenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Di-n-octyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
N-Nitrosodi-n-propylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
N-Nitrosodiphenylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 19:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*67*		*20 - 113*	*09/23/16 13:09*	*09/25/16 19:44*	*1*
Nitrobenzene-d5	*73*		*37 - 103*	*09/23/16 13:09*	*09/25/16 19:44*	*1*
Terphenyl-d14	*64*		*22 - 121*	*09/23/16 13:09*	*09/25/16 19:44*	*1*
2,4,6-Tribromophenol	*80*		*39 - 133*	*09/23/16 13:09*	*09/25/16 19:44*	*1*
2-Fluorophenol	*69*		*18 - 112*	*09/23/16 13:09*	*09/25/16 19:44*	*1*
2-Fluorobiphenyl	*71*		*31 - 107*	*09/23/16 13:09*	*09/25/16 19:44*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7D

Lab Sample ID: 680-130081-5

Date Collected: 09/20/16 11:25

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	34		4.8		ug/L		09/23/16 13:09	09/26/16 18:18	5
1,2-Dichlorobenzene	47		4.8		ug/L		09/23/16 13:09	09/26/16 18:18	5

Client Sample ID: MW-7BR

Lab Sample ID: 680-130081-6

Date Collected: 09/20/16 15:20

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2000		2000		ug/L			09/26/16 14:35	200
Benzene	<200		200		ug/L			09/26/16 14:35	200
Bromoform	<200		200		ug/L			09/26/16 14:35	200
Bromomethane	<1000		1000		ug/L			09/26/16 14:35	200
2-Butanone (MEK)	<2000		2000		ug/L			09/26/16 14:35	200
Carbon disulfide	<400		400		ug/L			09/26/16 14:35	200
Carbon tetrachloride	<200		200		ug/L			09/26/16 14:35	200
Chlorobenzene	<200		200		ug/L			09/26/16 14:35	200
Chlorodibromomethane	<200		200		ug/L			09/26/16 14:35	200
Chloroethane	<1000		1000		ug/L			09/26/16 14:35	200
Chloroform	<200		200		ug/L			09/26/16 14:35	200
Chloromethane	<200		200		ug/L			09/26/16 14:35	200
cis-1,2-Dichloroethene	**9700**		200		ug/L			09/26/16 14:35	200
cis-1,3-Dichloropropene	<200		200		ug/L			09/26/16 14:35	200
1,2-Dichlorobenzene	**1700**		200		ug/L			09/26/16 14:35	200
1,4-Dichlorobenzene	<200		200		ug/L			09/26/16 14:35	200
Dichlorobromomethane	<200		200		ug/L			09/26/16 14:35	200
1,1-Dichloroethane	**1200**		200		ug/L			09/26/16 14:35	200
1,2-Dichloroethane	<200		200		ug/L			09/26/16 14:35	200
1,1-Dichloroethene	**920**		200		ug/L			09/26/16 14:35	200
1,2-Dichloropropane	<200		200		ug/L			09/26/16 14:35	200
Ethylbenzene	**1300**		200		ug/L			09/26/16 14:35	200
2-Hexanone	<2000		2000		ug/L			09/26/16 14:35	200
Methylene Chloride	<1000		1000		ug/L			09/26/16 14:35	200
4-Methyl-2-pentanone (MIBK)	<2000		2000		ug/L			09/26/16 14:35	200
Styrene	<200		200		ug/L			09/26/16 14:35	200
1,1,2,2-Tetrachloroethane	<200		200		ug/L			09/26/16 14:35	200
Tetrachloroethene	**640**		200		ug/L			09/26/16 14:35	200
Toluene	**7200**		200		ug/L			09/26/16 14:35	200
trans-1,2-Dichloroethene	<200		200		ug/L			09/26/16 14:35	200
trans-1,3-Dichloropropene	<200		200		ug/L			09/26/16 14:35	200
1,1,1-Trichloroethane	<200		200		ug/L			09/26/16 14:35	200
1,1,2-Trichloroethane	<200		200		ug/L			09/26/16 14:35	200
Trichloroethene	**850**		200		ug/L			09/26/16 14:35	200
Vinyl chloride	**2400**		200		ug/L			09/26/16 14:35	200
Xylenes, Total	**4800**		200		ug/L			09/26/16 14:35	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/26/16 14:35*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*09/26/16 14:35*	*200*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*09/26/16 14:35*	*200*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/26/16 14:35*	*200*

Client Sample ID: MW-11

Lab Sample ID: 680-130081-7

Date Collected: 09/19/16 17:35

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2000		2000		ug/L			09/26/16 14:55	200
Benzene	<200		200		ug/L			09/26/16 14:55	200
Bromoform	<200		200		ug/L			09/26/16 14:55	200
Bromomethane	<1000		1000		ug/L			09/26/16 14:55	200
2-Butanone (MEK)	<2000		2000		ug/L			09/26/16 14:55	200
Carbon disulfide	<400		400		ug/L			09/26/16 14:55	200
Carbon tetrachloride	<200		200		ug/L			09/26/16 14:55	200
Chlorobenzene	<200		200		ug/L			09/26/16 14:55	200
Chlorodibromomethane	<200		200		ug/L			09/26/16 14:55	200
Chloroethane	<1000		1000		ug/L			09/26/16 14:55	200
Chloroform	<200		200		ug/L			09/26/16 14:55	200
Chloromethane	<200		200		ug/L			09/26/16 14:55	200
cis-1,2-Dichloroethene	**7400**		200		ug/L			09/26/16 14:55	200
cis-1,3-Dichloropropene	<200		200		ug/L			09/26/16 14:55	200
1,2-Dichlorobenzene	<200		200		ug/L			09/26/16 14:55	200
1,4-Dichlorobenzene	<200		200		ug/L			09/26/16 14:55	200
Dichlorobromomethane	<200		200		ug/L			09/26/16 14:55	200
1,1-Dichloroethane	<200		200		ug/L			09/26/16 14:55	200
1,2-Dichloroethane	<200		200		ug/L			09/26/16 14:55	200
1,1-Dichloroethene	**2200**		200		ug/L			09/26/16 14:55	200
1,2-Dichloropropane	<200		200		ug/L			09/26/16 14:55	200
Ethylbenzene	<200		200		ug/L			09/26/16 14:55	200
2-Hexanone	<2000		2000		ug/L			09/26/16 14:55	200
Methylene Chloride	<1000		1000		ug/L			09/26/16 14:55	200
4-Methyl-2-pentanone (MIBK)	<2000		2000		ug/L			09/26/16 14:55	200
Styrene	<200		200		ug/L			09/26/16 14:55	200
1,1,2,2-Tetrachloroethane	<200		200		ug/L			09/26/16 14:55	200
Tetrachloroethene	**5700**		200		ug/L			09/26/16 14:55	200
Toluene	<200		200		ug/L			09/26/16 14:55	200
trans-1,2-Dichloroethene	<200		200		ug/L			09/26/16 14:55	200
trans-1,3-Dichloropropene	<200		200		ug/L			09/26/16 14:55	200
1,1,1-Trichloroethane	<200		200		ug/L			09/26/16 14:55	200
1,1,2-Trichloroethane	<200		200		ug/L			09/26/16 14:55	200
Trichloroethene	**12000**		200		ug/L			09/26/16 14:55	200
Vinyl chloride	<200		200		ug/L			09/26/16 14:55	200
Xylenes, Total	<200		200		ug/L			09/26/16 14:55	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/26/16 14:55*	*200*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*09/26/16 14:55*	*200*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/26/16 14:55*	*200*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/26/16 14:55*	*200*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-11
Date Collected: 09/19/16 17:35
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Acenaphthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Acenaphthylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Chrysene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Fluorene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Naphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Phenanthrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:06	1
Bis(2-ethylhexyl) phthalate	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
1,2,4-Trichlorobenzene	**1.6**		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
1,2-Dichlorobenzene	**2.6**		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
1,3-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
1,4-Dichlorobenzene	**3.1**		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
bis(chloroisopropyl) ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4,5-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4,6-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4-Dichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4-Dimethylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4-Dinitrophenol	<9.6		9.6		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,4-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2,6-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2-Chloronaphthalene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2-Chlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2-Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:06	1
2-Nitroaniline	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
2-Nitrophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
3 & 4 Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:06	1
3,3'-Dichlorobenzidine	<19	*	19		ug/L		09/23/16 13:09	09/25/16 20:06	1
3-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
4,6-Dinitro-2-methylphenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Bromophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Chloro-3-methylphenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Chloroaniline	<3.8		3.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Chlorophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
4-Nitrophenol	<7.7		7.7		ug/L		09/23/16 13:09	09/25/16 20:06	1
Bis(2-chloroethoxy)methane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Bis(2-chloroethyl)ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Butyl benzyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Carbazole	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:06	1

Client Sample ID: MW-11

Lab Sample ID: 680-130081-7

Date Collected: 09/19/16 17:35

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Diethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Dimethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Hexachlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Hexachlorobutadiene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Hexachlorocyclopentadiene	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:06	1
Hexachloroethane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Isophorone	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Nitrobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Pentachlorophenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:06	1
Phenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Di-n-octyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
N-Nitrosodi-n-propylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
N-Nitrosodiphenylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*72*		*20 - 113*	*09/23/16 13:09*	*09/25/16 20:06*	*1*
Nitrobenzene-d5	*80*		*37 - 103*	*09/23/16 13:09*	*09/25/16 20:06*	*1*
Terphenyl-d14	*83*		*22 - 121*	*09/23/16 13:09*	*09/25/16 20:06*	*1*
2,4,6-Tribromophenol	*85*		*39 - 133*	*09/23/16 13:09*	*09/25/16 20:06*	*1*
2-Fluorophenol	*73*		*18 - 112*	*09/23/16 13:09*	*09/25/16 20:06*	*1*
2-Fluorobiphenyl	*78*		*31 - 107*	*09/23/16 13:09*	*09/25/16 20:06*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-11
Date Collected: 09/19/16 17:35
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-7
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	280		38		ug/L		09/23/16 13:09	09/26/16 18:42	20

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-12

Lab Sample ID: 680-130081-8

Date Collected: 09/20/16 09:20
Date Received: 09/22/16 09:18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/27/16 12:12	1
Benzene	<1.0		1.0		ug/L			09/27/16 12:12	1
Bromoform	<1.0	*	1.0		ug/L			09/27/16 12:12	1
Bromomethane	<5.0		5.0		ug/L			09/27/16 12:12	1
2-Butanone (MEK)	<10		10		ug/L			09/27/16 12:12	1
Carbon disulfide	<2.0		2.0		ug/L			09/27/16 12:12	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/27/16 12:12	1
Chlorobenzene	<1.0		1.0		ug/L			09/27/16 12:12	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/27/16 12:12	1
Chloroethane	<5.0		5.0		ug/L			09/27/16 12:12	1
Chloroform	<1.0		1.0		ug/L			09/27/16 12:12	1
Chloromethane	<1.0	*	1.0		ug/L			09/27/16 12:12	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:12	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:12	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:12	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:12	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/27/16 12:12	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/27/16 12:12	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/27/16 12:12	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:12	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/27/16 12:12	1
Ethylbenzene	<1.0		1.0		ug/L			09/27/16 12:12	1
2-Hexanone	<10		10		ug/L			09/27/16 12:12	1
Methylene Chloride	<5.0	*	5.0		ug/L			09/27/16 12:12	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/27/16 12:12	1
Styrene	<1.0		1.0		ug/L			09/27/16 12:12	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/27/16 12:12	1
Tetrachloroethene	**9.3**		1.0		ug/L			09/27/16 12:12	1
Toluene	<1.0		1.0		ug/L			09/27/16 12:12	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:12	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:12	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:12	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:12	1
Trichloroethene	**21**		1.0		ug/L			09/27/16 12:12	1
Vinyl chloride	<1.0		1.0		ug/L			09/27/16 12:12	1
Xylenes, Total	<1.0		1.0		ug/L			09/27/16 12:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/16 12:12*	*1*
1,2-Dichloroethane-d4 (Surr)	*93*		*73 - 131*		*09/27/16 12:12*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*09/27/16 12:12*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/27/16 12:12*	*1*

Client Sample ID: MW-12D

Lab Sample ID: 680-130081-9

Date Collected: 09/20/16 08:45

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<500		500		ug/L			09/27/16 13:42	50
Benzene	<50		50		ug/L			09/27/16 13:42	50
Bromoform	<50	*	50		ug/L			09/27/16 13:42	50
Bromomethane	<250		250		ug/L			09/27/16 13:42	50
2-Butanone (MEK)	<500		500		ug/L			09/27/16 13:42	50
Carbon disulfide	<100		100		ug/L			09/27/16 13:42	50
Carbon tetrachloride	<50		50		ug/L			09/27/16 13:42	50
Chlorobenzene	<50		50		ug/L			09/27/16 13:42	50
Chlorodibromomethane	<50		50		ug/L			09/27/16 13:42	50
Chloroethane	<250		250		ug/L			09/27/16 13:42	50
Chloroform	<50		50		ug/L			09/27/16 13:42	50
Chloromethane	<50	*	50		ug/L			09/27/16 13:42	50
cis-1,2-Dichloroethene	**350**		50		ug/L			09/27/16 13:42	50
cis-1,3-Dichloropropene	<50		50		ug/L			09/27/16 13:42	50
1,2-Dichlorobenzene	<50		50		ug/L			09/27/16 13:42	50
1,4-Dichlorobenzene	<50		50		ug/L			09/27/16 13:42	50
Dichlorobromomethane	<50		50		ug/L			09/27/16 13:42	50
1,1-Dichloroethane	<50		50		ug/L			09/27/16 13:42	50
1,2-Dichloroethane	<50		50		ug/L			09/27/16 13:42	50
1,1-Dichloroethene	**280**		50		ug/L			09/27/16 13:42	50
1,2-Dichloropropane	<50		50		ug/L			09/27/16 13:42	50
Ethylbenzene	<50		50		ug/L			09/27/16 13:42	50
2-Hexanone	<500		500		ug/L			09/27/16 13:42	50
Methylene Chloride	<250	*	250		ug/L			09/27/16 13:42	50
4-Methyl-2-pentanone (MIBK)	<500		500		ug/L			09/27/16 13:42	50
Styrene	<50		50		ug/L			09/27/16 13:42	50
1,1,2,2-Tetrachloroethane	<50		50		ug/L			09/27/16 13:42	50
Tetrachloroethene	**880**		50		ug/L			09/27/16 13:42	50
Toluene	<50		50		ug/L			09/27/16 13:42	50
trans-1,2-Dichloroethene	<50		50		ug/L			09/27/16 13:42	50
trans-1,3-Dichloropropene	<50		50		ug/L			09/27/16 13:42	50
1,1,1-Trichloroethane	<50		50		ug/L			09/27/16 13:42	50
1,1,2-Trichloroethane	<50		50		ug/L			09/27/16 13:42	50
Trichloroethene	**5100**		50		ug/L			09/27/16 13:42	50
Vinyl chloride	<50		50		ug/L			09/27/16 13:42	50
Xylenes, Total	<50		50		ug/L			09/27/16 13:42	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*98*		*80 - 120*		*09/27/16 13:42*	*50*
1,2-Dichloroethane-d4 (Surr)	*104*		*73 - 131*		*09/27/16 13:42*	*50*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*09/27/16 13:42*	*50*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 13:42*	*50*

Client Sample ID: MW-12D
Date Collected: 09/20/16 08:45
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-9
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Acenaphthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Acenaphthylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Chrysene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Fluorene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Naphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Phenanthrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:29	1
Bis(2-ethylhexyl) phthalate	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
1,2,4-Trichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
1,2-Dichlorobenzene	**1.5**		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
1,3-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
1,4-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
bis(chloroisopropyl) ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4,5-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4,6-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4-Dichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4-Dimethylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4-Dinitrophenol	<9.6		9.6		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,4-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2,6-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2-Chloronaphthalene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2-Chlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2-Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:29	1
2-Nitroaniline	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
2-Nitrophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
3 & 4 Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:29	1
3,3'-Dichlorobenzidine	<19	*	19		ug/L		09/23/16 13:09	09/25/16 20:29	1
3-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
4,6-Dinitro-2-methylphenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Bromophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Chloro-3-methylphenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Chloroaniline	<3.8		3.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Chlorophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
4-Nitrophenol	<7.6		7.6		ug/L		09/23/16 13:09	09/25/16 20:29	1
Bis(2-chloroethoxy)methane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Bis(2-chloroethyl)ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Butyl benzyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Carbazole	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:29	1

Client Sample ID: MW-12D

Lab Sample ID: 680-130081-9

Date Collected: 09/20/16 08:45

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Diethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Dimethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Hexachlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Hexachlorobutadiene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Hexachlorocyclopentadiene	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:29	1
Hexachloroethane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Isophorone	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Nitrobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Pentachlorophenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:29	1
Phenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Di-n-octyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
N-Nitrosodi-n-propylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
N-Nitrosodiphenylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*69*		*20 - 113*	*09/23/16 13:09*	*09/25/16 20:29*	*1*
Nitrobenzene-d5	*81*		*37 - 103*	*09/23/16 13:09*	*09/25/16 20:29*	*1*
Terphenyl-d14	*64*		*22 - 121*	*09/23/16 13:09*	*09/25/16 20:29*	*1*
2,4,6-Tribromophenol	*88*		*39 - 133*	*09/23/16 13:09*	*09/25/16 20:29*	*1*
2-Fluorophenol	*73*		*18 - 112*	*09/23/16 13:09*	*09/25/16 20:29*	*1*
2-Fluorobiphenyl	*81*		*31 - 107*	*09/23/16 13:09*	*09/25/16 20:29*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-12D
Date Collected: 09/20/16 08:45
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-9
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	530		96		ug/L		09/23/16 13:09	09/26/16 19:06	50

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-16

Lab Sample ID: 680-130081-10

Date Collected: 09/20/16 13:05

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10000		10000		ug/L			09/27/16 14:04	1000
Benzene	<1000		1000		ug/L			09/27/16 14:04	1000
Bromoform	<1000	*	1000		ug/L			09/27/16 14:04	1000
Bromomethane	<5000		5000		ug/L			09/27/16 14:04	1000
2-Butanone (MEK)	<10000		10000		ug/L			09/27/16 14:04	1000
Carbon disulfide	<2000		2000		ug/L			09/27/16 14:04	1000
Carbon tetrachloride	<1000		1000		ug/L			09/27/16 14:04	1000
Chlorobenzene	<1000		1000		ug/L			09/27/16 14:04	1000
Chlorodibromomethane	<1000		1000		ug/L			09/27/16 14:04	1000
Chloroethane	<5000		5000		ug/L			09/27/16 14:04	1000
Chloroform	<1000		1000		ug/L			09/27/16 14:04	1000
Chloromethane	<1000	*	1000		ug/L			09/27/16 14:04	1000
cis-1,2-Dichloroethene	<1000		1000		ug/L			09/27/16 14:04	1000
cis-1,3-Dichloropropene	<1000		1000		ug/L			09/27/16 14:04	1000
1,2-Dichlorobenzene	<1000		1000		ug/L			09/27/16 14:04	1000
1,4-Dichlorobenzene	<1000		1000		ug/L			09/27/16 14:04	1000
Dichlorobromomethane	<1000		1000		ug/L			09/27/16 14:04	1000
1,1-Dichloroethane	<1000		1000		ug/L			09/27/16 14:04	1000
1,2-Dichloroethane	<1000		1000		ug/L			09/27/16 14:04	1000
1,1-Dichloroethene	<1000		1000		ug/L			09/27/16 14:04	1000
1,2-Dichloropropane	<1000		1000		ug/L			09/27/16 14:04	1000
Ethylbenzene	<1000		1000		ug/L			09/27/16 14:04	1000
2-Hexanone	<10000		10000		ug/L			09/27/16 14:04	1000
Methylene Chloride	<5000	*	5000		ug/L			09/27/16 14:04	1000
4-Methyl-2-pentanone (MIBK)	<10000		10000		ug/L			09/27/16 14:04	1000
Styrene	<1000		1000		ug/L			09/27/16 14:04	1000
1,1,2,2-Tetrachloroethane	<1000		1000		ug/L			09/27/16 14:04	1000
Tetrachloroethene	**53000**		1000		ug/L			09/27/16 14:04	1000
Toluene	<1000		1000		ug/L			09/27/16 14:04	1000
trans-1,2-Dichloroethene	<1000		1000		ug/L			09/27/16 14:04	1000
trans-1,3-Dichloropropene	<1000		1000		ug/L			09/27/16 14:04	1000
1,1,1-Trichloroethane	<1000		1000		ug/L			09/27/16 14:04	1000
1,1,2-Trichloroethane	<1000		1000		ug/L			09/27/16 14:04	1000
Trichloroethene	<1000		1000		ug/L			09/27/16 14:04	1000
Vinyl chloride	<1000		1000		ug/L			09/27/16 14:04	1000
Xylenes, Total	<1000		1000		ug/L			09/27/16 14:04	1000

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*97*		*80 - 120*		*09/27/16 14:04*	*1000*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*		*09/27/16 14:04*	*1000*
Dibromofluoromethane (Surr)	*108*		*80 - 122*		*09/27/16 14:04*	*1000*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/27/16 14:04*	*1000*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-17D

Lab Sample ID: 680-130081-11

Date Collected: 09/19/16 08:15

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<250		250		ug/L			09/27/16 14:27	25
Benzene	<25		25		ug/L			09/27/16 14:27	25
Bromoform	<25	*	25		ug/L			09/27/16 14:27	25
Bromomethane	<130		130		ug/L			09/27/16 14:27	25
2-Butanone (MEK)	<250		250		ug/L			09/27/16 14:27	25
Carbon disulfide	<50		50		ug/L			09/27/16 14:27	25
Carbon tetrachloride	<25		25		ug/L			09/27/16 14:27	25
Chlorobenzene	<25		25		ug/L			09/27/16 14:27	25
Chlorodibromomethane	<25		25		ug/L			09/27/16 14:27	25
Chloroethane	<130		130		ug/L			09/27/16 14:27	25
Chloroform	<25		25		ug/L			09/27/16 14:27	25
Chloromethane	<25	*	25		ug/L			09/27/16 14:27	25
cis-1,2-Dichloroethene	**270**		25		ug/L			09/27/16 14:27	25
cis-1,3-Dichloropropene	<25		25		ug/L			09/27/16 14:27	25
1,2-Dichlorobenzene	<25		25		ug/L			09/27/16 14:27	25
1,4-Dichlorobenzene	<25		25		ug/L			09/27/16 14:27	25
Dichlorobromomethane	<25		25		ug/L			09/27/16 14:27	25
1,1-Dichloroethane	<25		25		ug/L			09/27/16 14:27	25
1,2-Dichloroethane	<25		25		ug/L			09/27/16 14:27	25
1,1-Dichloroethene	**100**		25		ug/L			09/27/16 14:27	25
1,2-Dichloropropane	<25		25		ug/L			09/27/16 14:27	25
Ethylbenzene	<25		25		ug/L			09/27/16 14:27	25
2-Hexanone	<250		250		ug/L			09/27/16 14:27	25
Methylene Chloride	<130	*	130		ug/L			09/27/16 14:27	25
4-Methyl-2-pentanone (MIBK)	<250		250		ug/L			09/27/16 14:27	25
Styrene	<25		25		ug/L			09/27/16 14:27	25
1,1,2,2-Tetrachloroethane	<25		25		ug/L			09/27/16 14:27	25
Tetrachloroethene	**3000**		25		ug/L			09/27/16 14:27	25
Toluene	<25		25		ug/L			09/27/16 14:27	25
trans-1,2-Dichloroethene	<25		25		ug/L			09/27/16 14:27	25
trans-1,3-Dichloropropene	<25		25		ug/L			09/27/16 14:27	25
1,1,1-Trichloroethane	<25		25		ug/L			09/27/16 14:27	25
1,1,2-Trichloroethane	<25		25		ug/L			09/27/16 14:27	25
Trichloroethene	**1400**		25		ug/L			09/27/16 14:27	25
Vinyl chloride	<25		25		ug/L			09/27/16 14:27	25
Xylenes, Total	<25		25		ug/L			09/27/16 14:27	25

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*94*		*80 - 120*		*09/27/16 14:27*	*25*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*09/27/16 14:27*	*25*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*09/27/16 14:27*	*25*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 14:27*	*25*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-19

Lab Sample ID: 680-130081-12

Date Collected: 09/20/16 10:15

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<2000		2000		ug/L			09/27/16 14:49	200
Benzene	**220**		200		ug/L			09/27/16 14:49	200
Bromoform	<200	*	200		ug/L			09/27/16 14:49	200
Bromomethane	<1000		1000		ug/L			09/27/16 14:49	200
2-Butanone (MEK)	<2000		2000		ug/L			09/27/16 14:49	200
Carbon disulfide	<400		400		ug/L			09/27/16 14:49	200
Carbon tetrachloride	<200		200		ug/L			09/27/16 14:49	200
Chlorobenzene	<200		200		ug/L			09/27/16 14:49	200
Chlorodibromomethane	<200		200		ug/L			09/27/16 14:49	200
Chloroethane	<1000		1000		ug/L			09/27/16 14:49	200
Chloroform	<200		200		ug/L			09/27/16 14:49	200
Chloromethane	<200	*	200		ug/L			09/27/16 14:49	200
cis-1,2-Dichloroethene	**2300**		200		ug/L			09/27/16 14:49	200
cis-1,3-Dichloropropene	<200		200		ug/L			09/27/16 14:49	200
1,2-Dichlorobenzene	<200		200		ug/L			09/27/16 14:49	200
1,4-Dichlorobenzene	<200		200		ug/L			09/27/16 14:49	200
Dichlorobromomethane	<200		200		ug/L			09/27/16 14:49	200
1,1-Dichloroethane	<200		200		ug/L			09/27/16 14:49	200
1,2-Dichloroethane	<200		200		ug/L			09/27/16 14:49	200
1,1-Dichloroethene	**780**		200		ug/L			09/27/16 14:49	200
1,2-Dichloropropane	<200		200		ug/L			09/27/16 14:49	200
Ethylbenzene	<200		200		ug/L			09/27/16 14:49	200
2-Hexanone	<2000		2000		ug/L			09/27/16 14:49	200
Methylene Chloride	<1000	*	1000		ug/L			09/27/16 14:49	200
4-Methyl-2-pentanone (MIBK)	<2000		2000		ug/L			09/27/16 14:49	200
Styrene	<200		200		ug/L			09/27/16 14:49	200
1,1,2,2-Tetrachloroethane	<200		200		ug/L			09/27/16 14:49	200
Tetrachloroethene	**20000**		200		ug/L			09/27/16 14:49	200
Toluene	<200		200		ug/L			09/27/16 14:49	200
trans-1,2-Dichloroethene	<200		200		ug/L			09/27/16 14:49	200
trans-1,3-Dichloropropene	<200		200		ug/L			09/27/16 14:49	200
1,1,1-Trichloroethane	<200		200		ug/L			09/27/16 14:49	200
1,1,2-Trichloroethane	<200		200		ug/L			09/27/16 14:49	200
Trichloroethene	**4500**		200		ug/L			09/27/16 14:49	200
Vinyl chloride	<200		200		ug/L			09/27/16 14:49	200
Xylenes, Total	<200		200		ug/L			09/27/16 14:49	200

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*96*		*80 - 120*		*09/27/16 14:49*	*200*
1,2-Dichloroethane-d4 (Surr)	*110*		*73 - 131*		*09/27/16 14:49*	*200*
Dibromofluoromethane (Surr)	*112*		*80 - 122*		*09/27/16 14:49*	*200*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 14:49*	*200*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-22

Lab Sample ID: 680-130081-13

Date Collected: 09/20/16 07:40
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<100		100		ug/L			09/27/16 15:12	10
Benzene	<10		10		ug/L			09/27/16 15:12	10
Bromoform	<10	*	10		ug/L			09/27/16 15:12	10
Bromomethane	<50		50		ug/L			09/27/16 15:12	10
2-Butanone (MEK)	<100		100		ug/L			09/27/16 15:12	10
Carbon disulfide	<20		20		ug/L			09/27/16 15:12	10
Carbon tetrachloride	<10		10		ug/L			09/27/16 15:12	10
Chlorobenzene	<10		10		ug/L			09/27/16 15:12	10
Chlorodibromomethane	<10		10		ug/L			09/27/16 15:12	10
Chloroethane	<50		50		ug/L			09/27/16 15:12	10
Chloroform	<10		10		ug/L			09/27/16 15:12	10
Chloromethane	<10	*	10		ug/L			09/27/16 15:12	10
cis-1,2-Dichloroethene	**490**		10		ug/L			09/27/16 15:12	10
cis-1,3-Dichloropropene	<10		10		ug/L			09/27/16 15:12	10
1,2-Dichlorobenzene	<10		10		ug/L			09/27/16 15:12	10
1,4-Dichlorobenzene	<10		10		ug/L			09/27/16 15:12	10
Dichlorobromomethane	<10		10		ug/L			09/27/16 15:12	10
1,1-Dichloroethane	**13**		10		ug/L			09/27/16 15:12	10
1,2-Dichloroethane	<10		10		ug/L			09/27/16 15:12	10
1,1-Dichloroethene	**200**		10		ug/L			09/27/16 15:12	10
1,2-Dichloropropane	<10		10		ug/L			09/27/16 15:12	10
Ethylbenzene	<10		10		ug/L			09/27/16 15:12	10
2-Hexanone	<100		100		ug/L			09/27/16 15:12	10
Methylene Chloride	<50	*	50		ug/L			09/27/16 15:12	10
4-Methyl-2-pentanone (MIBK)	<100		100		ug/L			09/27/16 15:12	10
Styrene	<10		10		ug/L			09/27/16 15:12	10
1,1,2,2-Tetrachloroethane	<10		10		ug/L			09/27/16 15:12	10
Tetrachloroethene	**1200**		10		ug/L			09/27/16 15:12	10
Toluene	<10		10		ug/L			09/27/16 15:12	10
trans-1,2-Dichloroethene	<10		10		ug/L			09/27/16 15:12	10
trans-1,3-Dichloropropene	<10		10		ug/L			09/27/16 15:12	10
1,1,1-Trichloroethane	<10		10		ug/L			09/27/16 15:12	10
1,1,2-Trichloroethane	<10		10		ug/L			09/27/16 15:12	10
Trichloroethene	**560**		10		ug/L			09/27/16 15:12	10
Vinyl chloride	<10		10		ug/L			09/27/16 15:12	10
Xylenes, Total	<10		10		ug/L			09/27/16 15:12	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/27/16 15:12*	*10*
1,2-Dichloroethane-d4 (Surr)	*116*		*73 - 131*		*09/27/16 15:12*	*10*
Dibromofluoromethane (Surr)	*116*		*80 - 122*		*09/27/16 15:12*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/27/16 15:12*	*10*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-22BR

Lab Sample ID: 680-130081-14

Date Collected: 09/20/16 07:18
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**28**		20		ug/L			09/27/16 15:34	2
Benzene	<2.0		2.0		ug/L			09/27/16 15:34	2
Bromoform	<2.0	*	2.0		ug/L			09/27/16 15:34	2
Bromomethane	<10		10		ug/L			09/27/16 15:34	2
2-Butanone (MEK)	<20		20		ug/L			09/27/16 15:34	2
Carbon disulfide	<4.0		4.0		ug/L			09/27/16 15:34	2
Carbon tetrachloride	<2.0		2.0		ug/L			09/27/16 15:34	2
Chlorobenzene	<2.0		2.0		ug/L			09/27/16 15:34	2
Chlorodibromomethane	<2.0		2.0		ug/L			09/27/16 15:34	2
Chloroethane	<10		10		ug/L			09/27/16 15:34	2
Chloroform	<2.0		2.0		ug/L			09/27/16 15:34	2
Chloromethane	<2.0	*	2.0		ug/L			09/27/16 15:34	2
cis-1,2-Dichloroethene	**57**		2.0		ug/L			09/27/16 15:34	2
cis-1,3-Dichloropropene	<2.0		2.0		ug/L			09/27/16 15:34	2
1,2-Dichlorobenzene	<2.0		2.0		ug/L			09/27/16 15:34	2
1,4-Dichlorobenzene	<2.0		2.0		ug/L			09/27/16 15:34	2
Dichlorobromomethane	<2.0		2.0		ug/L			09/27/16 15:34	2
1,1-Dichloroethane	**9.4**		2.0		ug/L			09/27/16 15:34	2
1,2-Dichloroethane	<2.0		2.0		ug/L			09/27/16 15:34	2
1,1-Dichloroethene	**130**		2.0		ug/L			09/27/16 15:34	2
1,2-Dichloropropane	<2.0		2.0		ug/L			09/27/16 15:34	2
Ethylbenzene	<2.0		2.0		ug/L			09/27/16 15:34	2
2-Hexanone	<20		20		ug/L			09/27/16 15:34	2
Methylene Chloride	<10	*	10		ug/L			09/27/16 15:34	2
4-Methyl-2-pentanone (MIBK)	<20		20		ug/L			09/27/16 15:34	2
Styrene	<2.0		2.0		ug/L			09/27/16 15:34	2
1,1,2,2-Tetrachloroethane	<2.0		2.0		ug/L			09/27/16 15:34	2
Toluene	<2.0		2.0		ug/L			09/27/16 15:34	2
trans-1,2-Dichloroethene	<2.0		2.0		ug/L			09/27/16 15:34	2
trans-1,3-Dichloropropene	<2.0		2.0		ug/L			09/27/16 15:34	2
1,1,1-Trichloroethane	<2.0		2.0		ug/L			09/27/16 15:34	2
1,1,2-Trichloroethane	<2.0		2.0		ug/L			09/27/16 15:34	2
Trichloroethene	**260**		2.0		ug/L			09/27/16 15:34	2
Vinyl chloride	<2.0		2.0		ug/L			09/27/16 15:34	2
Xylenes, Total	<2.0		2.0		ug/L			09/27/16 15:34	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*93*		*80 - 120*		*09/27/16 15:34*	*2*
1,2-Dichloroethane-d4 (Surr)	*119*		*73 - 131*		*09/27/16 15:34*	*2*
Dibromofluoromethane (Surr)	*117*		*80 - 122*		*09/27/16 15:34*	*2*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 15:34*	*2*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-22BR

Lab Sample ID: 680-130081-14

Date Collected: 09/20/16 07:18

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	370		10		ug/L			09/28/16 12:25	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/16 12:25*	*10*
1,2-Dichloroethane-d4 (Surr)	*107*		*73 - 131*		*09/28/16 12:25*	*10*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*09/28/16 12:25*	*10*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/28/16 12:25*	*10*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-27S

Lab Sample ID: 680-130081-15

Date Collected: 09/20/16 10:40

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<100		100		ug/L			09/27/16 15:57	10
Benzene	<10		10		ug/L			09/27/16 15:57	10
Bromoform	<10	*	10		ug/L			09/27/16 15:57	10
Bromomethane	<50		50		ug/L			09/27/16 15:57	10
2-Butanone (MEK)	<100		100		ug/L			09/27/16 15:57	10
Carbon disulfide	<20		20		ug/L			09/27/16 15:57	10
Carbon tetrachloride	<10		10		ug/L			09/27/16 15:57	10
Chlorobenzene	<10		10		ug/L			09/27/16 15:57	10
Chlorodibromomethane	<10		10		ug/L			09/27/16 15:57	10
Chloroethane	<50		50		ug/L			09/27/16 15:57	10
Chloroform	<10		10		ug/L			09/27/16 15:57	10
Chloromethane	<10	*	10		ug/L			09/27/16 15:57	10
cis-1,2-Dichloroethene	**71**		10		ug/L			09/27/16 15:57	10
cis-1,3-Dichloropropene	<10		10		ug/L			09/27/16 15:57	10
1,2-Dichlorobenzene	<10		10		ug/L			09/27/16 15:57	10
1,4-Dichlorobenzene	<10		10		ug/L			09/27/16 15:57	10
Dichlorobromomethane	<10		10		ug/L			09/27/16 15:57	10
1,1-Dichloroethane	<10		10		ug/L			09/27/16 15:57	10
1,2-Dichloroethane	<10		10		ug/L			09/27/16 15:57	10
1,1-Dichloroethene	**76**		10		ug/L			09/27/16 15:57	10
1,2-Dichloropropane	<10		10		ug/L			09/27/16 15:57	10
Ethylbenzene	<10		10		ug/L			09/27/16 15:57	10
2-Hexanone	<100		100		ug/L			09/27/16 15:57	10
Methylene Chloride	<50	*	50		ug/L			09/27/16 15:57	10
4-Methyl-2-pentanone (MIBK)	<100		100		ug/L			09/27/16 15:57	10
Styrene	<10		10		ug/L			09/27/16 15:57	10
1,1,2,2-Tetrachloroethane	<10		10		ug/L			09/27/16 15:57	10
Tetrachloroethene	**1100**		10		ug/L			09/27/16 15:57	10
Toluene	<10		10		ug/L			09/27/16 15:57	10
trans-1,2-Dichloroethene	<10		10		ug/L			09/27/16 15:57	10
trans-1,3-Dichloropropene	<10		10		ug/L			09/27/16 15:57	10
1,1,1-Trichloroethane	<10		10		ug/L			09/27/16 15:57	10
1,1,2-Trichloroethane	<10		10		ug/L			09/27/16 15:57	10
Trichloroethene	**540**		10		ug/L			09/27/16 15:57	10
Vinyl chloride	<10		10		ug/L			09/27/16 15:57	10
Xylenes, Total	<10		10		ug/L			09/27/16 15:57	10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/27/16 15:57*	*10*
1,2-Dichloroethane-d4 (Surr)	*115*		*73 - 131*		*09/27/16 15:57*	*10*
Dibromofluoromethane (Surr)	*117*		*80 - 122*		*09/27/16 15:57*	*10*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*09/27/16 15:57*	*10*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-27D

Lab Sample ID: 680-130081-16

Date Collected: 09/20/16 11:30

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<200		200		ug/L			09/27/16 16:19	20
Benzene	<20		20		ug/L			09/27/16 16:19	20
Bromoform	<20	*	20		ug/L			09/27/16 16:19	20
Bromomethane	<100		100		ug/L			09/27/16 16:19	20
2-Butanone (MEK)	<200		200		ug/L			09/27/16 16:19	20
Carbon disulfide	<40		40		ug/L			09/27/16 16:19	20
Carbon tetrachloride	<20		20		ug/L			09/27/16 16:19	20
Chlorobenzene	<20		20		ug/L			09/27/16 16:19	20
Chlorodibromomethane	<20		20		ug/L			09/27/16 16:19	20
Chloroethane	<100		100		ug/L			09/27/16 16:19	20
Chloroform	<20		20		ug/L			09/27/16 16:19	20
Chloromethane	<20	*	20		ug/L			09/27/16 16:19	20
cis-1,2-Dichloroethene	**250**		20		ug/L			09/27/16 16:19	20
cis-1,3-Dichloropropene	<20		20		ug/L			09/27/16 16:19	20
1,2-Dichlorobenzene	<20		20		ug/L			09/27/16 16:19	20
1,4-Dichlorobenzene	<20		20		ug/L			09/27/16 16:19	20
Dichlorobromomethane	<20		20		ug/L			09/27/16 16:19	20
1,1-Dichloroethane	<20		20		ug/L			09/27/16 16:19	20
1,2-Dichloroethane	<20		20		ug/L			09/27/16 16:19	20
1,1-Dichloroethene	**130**		20		ug/L			09/27/16 16:19	20
1,2-Dichloropropane	<20		20		ug/L			09/27/16 16:19	20
Ethylbenzene	<20		20		ug/L			09/27/16 16:19	20
2-Hexanone	<200		200		ug/L			09/27/16 16:19	20
Methylene Chloride	<100	*	100		ug/L			09/27/16 16:19	20
4-Methyl-2-pentanone (MIBK)	<200		200		ug/L			09/27/16 16:19	20
Styrene	<20		20		ug/L			09/27/16 16:19	20
1,1,2,2-Tetrachloroethane	<20		20		ug/L			09/27/16 16:19	20
Tetrachloroethene	**1200**		20		ug/L			09/27/16 16:19	20
Toluene	<20		20		ug/L			09/27/16 16:19	20
trans-1,2-Dichloroethene	<20		20		ug/L			09/27/16 16:19	20
trans-1,3-Dichloropropene	<20		20		ug/L			09/27/16 16:19	20
1,1,1-Trichloroethane	<20		20		ug/L			09/27/16 16:19	20
1,1,2-Trichloroethane	<20		20		ug/L			09/27/16 16:19	20
Trichloroethene	**860**		20		ug/L			09/27/16 16:19	20
Vinyl chloride	<20		20		ug/L			09/27/16 16:19	20
Xylenes, Total	<20		20		ug/L			09/27/16 16:19	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*95*		*80 - 120*		*09/27/16 16:19*	*20*
1,2-Dichloroethane-d4 (Surr)	*106*		*73 - 131*		*09/27/16 16:19*	*20*
Dibromofluoromethane (Surr)	*110*		*80 - 122*		*09/27/16 16:19*	*20*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 16:19*	*20*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-29S

Lab Sample ID: 680-130081-17

Date Collected: 09/20/16 13:00
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/27/16 12:57	1
Benzene	<1.0		1.0		ug/L			09/27/16 12:57	1
Bromoform	<1.0	*	1.0		ug/L			09/27/16 12:57	1
Bromomethane	<5.0		5.0		ug/L			09/27/16 12:57	1
2-Butanone (MEK)	<10		10		ug/L			09/27/16 12:57	1
Carbon disulfide	<2.0		2.0		ug/L			09/27/16 12:57	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/27/16 12:57	1
Chlorobenzene	<1.0		1.0		ug/L			09/27/16 12:57	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/27/16 12:57	1
Chloroethane	<5.0		5.0		ug/L			09/27/16 12:57	1
Chloroform	<1.0		1.0		ug/L			09/27/16 12:57	1
Chloromethane	<1.0	*	1.0		ug/L			09/27/16 12:57	1
cis-1,2-Dichloroethene	**17**		1.0		ug/L			09/27/16 12:57	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:57	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:57	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:57	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/27/16 12:57	1
1,1-Dichloroethane	**1.8**		1.0		ug/L			09/27/16 12:57	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/27/16 12:57	1
1,1-Dichloroethene	**8.1**		1.0		ug/L			09/27/16 12:57	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/27/16 12:57	1
Ethylbenzene	<1.0		1.0		ug/L			09/27/16 12:57	1
2-Hexanone	<10		10		ug/L			09/27/16 12:57	1
Methylene Chloride	<5.0	*	5.0		ug/L			09/27/16 12:57	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/27/16 12:57	1
Styrene	<1.0		1.0		ug/L			09/27/16 12:57	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/27/16 12:57	1
Tetrachloroethene	**80**		1.0		ug/L			09/27/16 12:57	1
Toluene	<1.0		1.0		ug/L			09/27/16 12:57	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:57	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:57	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:57	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:57	1
Trichloroethene	**32**		1.0		ug/L			09/27/16 12:57	1
Vinyl chloride	<1.0		1.0		ug/L			09/27/16 12:57	1
Xylenes, Total	<1.0		1.0		ug/L			09/27/16 12:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/16 12:57*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*09/27/16 12:57*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 122*		*09/27/16 12:57*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/27/16 12:57*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-29D

Lab Sample ID: 680-130081-18

Date Collected: 09/20/16 13:30

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<50		50		ug/L			09/27/16 16:42	5
Benzene	<5.0		5.0		ug/L			09/27/16 16:42	5
Bromoform	<5.0	*	5.0		ug/L			09/27/16 16:42	5
Bromomethane	<25		25		ug/L			09/27/16 16:42	5
2-Butanone (MEK)	<50		50		ug/L			09/27/16 16:42	5
Carbon disulfide	<10		10		ug/L			09/27/16 16:42	5
Carbon tetrachloride	<5.0		5.0		ug/L			09/27/16 16:42	5
Chlorobenzene	<5.0		5.0		ug/L			09/27/16 16:42	5
Chlorodibromomethane	<5.0		5.0		ug/L			09/27/16 16:42	5
Chloroethane	<25		25		ug/L			09/27/16 16:42	5
Chloroform	<5.0		5.0		ug/L			09/27/16 16:42	5
Chloromethane	<5.0	*	5.0		ug/L			09/27/16 16:42	5
cis-1,2-Dichloroethene	**81**		5.0		ug/L			09/27/16 16:42	5
cis-1,3-Dichloropropene	<5.0		5.0		ug/L			09/27/16 16:42	5
1,2-Dichlorobenzene	<5.0		5.0		ug/L			09/27/16 16:42	5
1,4-Dichlorobenzene	<5.0		5.0		ug/L			09/27/16 16:42	5
Dichlorobromomethane	<5.0		5.0		ug/L			09/27/16 16:42	5
1,1-Dichloroethane	**8.0**		5.0		ug/L			09/27/16 16:42	5
1,2-Dichloroethane	<5.0		5.0		ug/L			09/27/16 16:42	5
1,1-Dichloroethene	**39**		5.0		ug/L			09/27/16 16:42	5
1,2-Dichloropropane	<5.0		5.0		ug/L			09/27/16 16:42	5
Ethylbenzene	<5.0		5.0		ug/L			09/27/16 16:42	5
2-Hexanone	<50		50		ug/L			09/27/16 16:42	5
Methylene Chloride	<25	*	25		ug/L			09/27/16 16:42	5
4-Methyl-2-pentanone (MIBK)	<50		50		ug/L			09/27/16 16:42	5
Styrene	<5.0		5.0		ug/L			09/27/16 16:42	5
1,1,2,2-Tetrachloroethane	<5.0		5.0		ug/L			09/27/16 16:42	5
Tetrachloroethene	**390**		5.0		ug/L			09/27/16 16:42	5
Toluene	<5.0		5.0		ug/L			09/27/16 16:42	5
trans-1,2-Dichloroethene	<5.0		5.0		ug/L			09/27/16 16:42	5
trans-1,3-Dichloropropene	<5.0		5.0		ug/L			09/27/16 16:42	5
1,1,1-Trichloroethane	<5.0		5.0		ug/L			09/27/16 16:42	5
1,1,2-Trichloroethane	<5.0		5.0		ug/L			09/27/16 16:42	5
Trichloroethene	**160**		5.0		ug/L			09/27/16 16:42	5
Vinyl chloride	<5.0		5.0		ug/L			09/27/16 16:42	5
Xylenes, Total	<5.0		5.0		ug/L			09/27/16 16:42	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*92*		*80 - 120*		*09/27/16 16:42*	*5*
1,2-Dichloroethane-d4 (Surr)	*117*		*73 - 131*		*09/27/16 16:42*	*5*
Dibromofluoromethane (Surr)	*117*		*80 - 122*		*09/27/16 16:42*	*5*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*		*09/27/16 16:42*	*5*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-30

Lab Sample ID: 680-130081-19

Date Collected: 09/20/16 14:20

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/27/16 12:34	1
Benzene	<1.0		1.0		ug/L			09/27/16 12:34	1
Bromoform	<1.0	*	1.0		ug/L			09/27/16 12:34	1
Bromomethane	<5.0		5.0		ug/L			09/27/16 12:34	1
2-Butanone (MEK)	<10		10		ug/L			09/27/16 12:34	1
Carbon disulfide	<2.0		2.0		ug/L			09/27/16 12:34	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/27/16 12:34	1
Chlorobenzene	<1.0		1.0		ug/L			09/27/16 12:34	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/27/16 12:34	1
Chloroethane	<5.0		5.0		ug/L			09/27/16 12:34	1
Chloroform	<1.0		1.0		ug/L			09/27/16 12:34	1
Chloromethane	<1.0	*	1.0		ug/L			09/27/16 12:34	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:34	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:34	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:34	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 12:34	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/27/16 12:34	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/27/16 12:34	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/27/16 12:34	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:34	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/27/16 12:34	1
Ethylbenzene	<1.0		1.0		ug/L			09/27/16 12:34	1
2-Hexanone	<10		10		ug/L			09/27/16 12:34	1
Methylene Chloride	<5.0	*	5.0		ug/L			09/27/16 12:34	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/27/16 12:34	1
Styrene	<1.0		1.0		ug/L			09/27/16 12:34	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/27/16 12:34	1
Tetrachloroethene	**11**		1.0		ug/L			09/27/16 12:34	1
Toluene	<1.0		1.0		ug/L			09/27/16 12:34	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 12:34	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 12:34	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:34	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/27/16 12:34	1
Trichloroethene	**5.3**		1.0		ug/L			09/27/16 12:34	1
Vinyl chloride	<1.0		1.0		ug/L			09/27/16 12:34	1
Xylenes, Total	<1.0		1.0		ug/L			09/27/16 12:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/27/16 12:34*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*09/27/16 12:34*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 122*		*09/27/16 12:34*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/27/16 12:34*	*1*

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: EB-1

Lab Sample ID: 680-130081-20

Date Collected: 09/20/16 13:35
Date Received: 09/22/16 09:18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/27/16 11:27	1
Benzene	<1.0		1.0		ug/L			09/27/16 11:27	1
Bromoform	<1.0	*	1.0		ug/L			09/27/16 11:27	1
Bromomethane	<5.0		5.0		ug/L			09/27/16 11:27	1
2-Butanone (MEK)	<10		10		ug/L			09/27/16 11:27	1
Carbon disulfide	<2.0		2.0		ug/L			09/27/16 11:27	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/27/16 11:27	1
Chlorobenzene	<1.0		1.0		ug/L			09/27/16 11:27	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/27/16 11:27	1
Chloroethane	<5.0		5.0		ug/L			09/27/16 11:27	1
Chloroform	<1.0		1.0		ug/L			09/27/16 11:27	1
Chloromethane	<1.0	*	1.0		ug/L			09/27/16 11:27	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:27	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 11:27	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 11:27	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 11:27	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/27/16 11:27	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/27/16 11:27	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/27/16 11:27	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:27	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/27/16 11:27	1
Ethylbenzene	<1.0		1.0		ug/L			09/27/16 11:27	1
2-Hexanone	<10		10		ug/L			09/27/16 11:27	1
Methylene Chloride	<5.0	*	5.0		ug/L			09/27/16 11:27	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/27/16 11:27	1
Styrene	<1.0		1.0		ug/L			09/27/16 11:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/27/16 11:27	1
Tetrachloroethene	<1.0		1.0		ug/L			09/27/16 11:27	1
Toluene	<1.0		1.0		ug/L			09/27/16 11:27	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:27	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 11:27	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/27/16 11:27	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/27/16 11:27	1
Trichloroethene	<1.0		1.0		ug/L			09/27/16 11:27	1
Vinyl chloride	<1.0		1.0		ug/L			09/27/16 11:27	1
Xylenes, Total	<1.0		1.0		ug/L			09/27/16 11:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/27/16 11:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*73 - 131*		*09/27/16 11:27*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*09/27/16 11:27*	*1*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*09/27/16 11:27*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: IDW-1

Lab Sample ID: 680-130081-21

Date Collected: 09/20/16 15:30

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<1000		1000		ug/L			09/28/16 14:48	100
Benzene	<100		100		ug/L			09/28/16 14:48	100
Bromoform	<100		100		ug/L			09/28/16 14:48	100
Bromomethane	<500		500		ug/L			09/28/16 14:48	100
2-Butanone (MEK)	<1000		1000		ug/L			09/28/16 14:48	100
Carbon disulfide	<200		200		ug/L			09/28/16 14:48	100
Carbon tetrachloride	<100		100		ug/L			09/28/16 14:48	100
Chlorobenzene	<100		100		ug/L			09/28/16 14:48	100
Chlorodibromomethane	<100		100		ug/L			09/28/16 14:48	100
Chloroethane	<500		500		ug/L			09/28/16 14:48	100
Chloroform	<100		100		ug/L			09/28/16 14:48	100
Chloromethane	<100		100		ug/L			09/28/16 14:48	100
cis-1,2-Dichloroethene	**1700**		100		ug/L			09/28/16 14:48	100
cis-1,3-Dichloropropene	<100		100		ug/L			09/28/16 14:48	100
1,2-Dichlorobenzene	**300**		100		ug/L			09/28/16 14:48	100
1,4-Dichlorobenzene	<100		100		ug/L			09/28/16 14:48	100
Dichlorobromomethane	<100		100		ug/L			09/28/16 14:48	100
1,1-Dichloroethane	**250**		100		ug/L			09/28/16 14:48	100
1,2-Dichloroethane	<100		100		ug/L			09/28/16 14:48	100
1,1-Dichloroethene	**240**		100		ug/L			09/28/16 14:48	100
1,2-Dichloropropane	<100		100		ug/L			09/28/16 14:48	100
Ethylbenzene	**210**		100		ug/L			09/28/16 14:48	100
2-Hexanone	<1000		1000		ug/L			09/28/16 14:48	100
Methylene Chloride	<500		500		ug/L			09/28/16 14:48	100
4-Methyl-2-pentanone (MIBK)	<1000		1000		ug/L			09/28/16 14:48	100
Styrene	<100		100		ug/L			09/28/16 14:48	100
1,1,2,2-Tetrachloroethane	<100		100		ug/L			09/28/16 14:48	100
Tetrachloroethene	**1000**		100		ug/L			09/28/16 14:48	100
Toluene	**1100**		100		ug/L			09/28/16 14:48	100
trans-1,2-Dichloroethene	<100		100		ug/L			09/28/16 14:48	100
trans-1,3-Dichloropropene	<100		100		ug/L			09/28/16 14:48	100
1,1,1-Trichloroethane	**170**		100		ug/L			09/28/16 14:48	100
1,1,2-Trichloroethane	<100		100		ug/L			09/28/16 14:48	100
Trichloroethene	**400**		100		ug/L			09/28/16 14:48	100
Vinyl chloride	**400**		100		ug/L			09/28/16 14:48	100
Xylenes, Total	**740**		100		ug/L			09/28/16 14:48	100

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 14:48*	*100*
1,2-Dichloroethane-d4 (Surr)	*101*		*73 - 131*		*09/28/16 14:48*	*100*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*09/28/16 14:48*	*100*
4-Bromofluorobenzene (Surr)	*109*		*80 - 120*		*09/28/16 14:48*	*100*

Client Sample ID: DUP-1

Lab Sample ID: 680-130081-22

Date Collected: 09/20/16 00:00

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<500		500		ug/L			09/28/16 15:09	50
Benzene	<50		50		ug/L			09/28/16 15:09	50
Bromoform	<50		50		ug/L			09/28/16 15:09	50
Bromomethane	<250		250		ug/L			09/28/16 15:09	50
2-Butanone (MEK)	<500		500		ug/L			09/28/16 15:09	50
Carbon disulfide	<100		100		ug/L			09/28/16 15:09	50
Carbon tetrachloride	<50		50		ug/L			09/28/16 15:09	50
Chlorobenzene	<50		50		ug/L			09/28/16 15:09	50
Chlorodibromomethane	<50		50		ug/L			09/28/16 15:09	50
Chloroethane	<250		250		ug/L			09/28/16 15:09	50
Chloroform	<50		50		ug/L			09/28/16 15:09	50
Chloromethane	<50		50		ug/L			09/28/16 15:09	50
cis-1,2-Dichloroethene	**340**		50		ug/L			09/28/16 15:09	50
cis-1,3-Dichloropropene	<50		50		ug/L			09/28/16 15:09	50
1,2-Dichlorobenzene	<50		50		ug/L			09/28/16 15:09	50
1,4-Dichlorobenzene	<50		50		ug/L			09/28/16 15:09	50
Dichlorobromomethane	<50		50		ug/L			09/28/16 15:09	50
1,1-Dichloroethane	<50		50		ug/L			09/28/16 15:09	50
1,2-Dichloroethane	<50		50		ug/L			09/28/16 15:09	50
1,1-Dichloroethene	**250**		50		ug/L			09/28/16 15:09	50
1,2-Dichloropropane	<50		50		ug/L			09/28/16 15:09	50
Ethylbenzene	<50		50		ug/L			09/28/16 15:09	50
2-Hexanone	<500		500		ug/L			09/28/16 15:09	50
Methylene Chloride	<250		250		ug/L			09/28/16 15:09	50
4-Methyl-2-pentanone (MIBK)	<500		500		ug/L			09/28/16 15:09	50
Styrene	<50		50		ug/L			09/28/16 15:09	50
1,1,2,2-Tetrachloroethane	<50		50		ug/L			09/28/16 15:09	50
Tetrachloroethene	**850**		50		ug/L			09/28/16 15:09	50
Toluene	<50		50		ug/L			09/28/16 15:09	50
trans-1,2-Dichloroethene	<50		50		ug/L			09/28/16 15:09	50
trans-1,3-Dichloropropene	<50		50		ug/L			09/28/16 15:09	50
1,1,1-Trichloroethane	<50		50		ug/L			09/28/16 15:09	50
1,1,2-Trichloroethane	<50		50		ug/L			09/28/16 15:09	50
Trichloroethene	**4500**		50		ug/L			09/28/16 15:09	50
Vinyl chloride	<50		50		ug/L			09/28/16 15:09	50
Xylenes, Total	<50		50		ug/L			09/28/16 15:09	50

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/16 15:09*	*50*
1,2-Dichloroethane-d4 (Surr)	*103*		*73 - 131*		*09/28/16 15:09*	*50*
Dibromofluoromethane (Surr)	*98*		*80 - 122*		*09/28/16 15:09*	*50*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/28/16 15:09*	*50*

Client Sample ID: DUP-1

Lab Sample ID: 680-130081-22

Date Collected: 09/20/16 00:00

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Acenaphthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Acenaphthylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Benzo[a]anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Benzo[a]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Benzo[b]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Benzo[g,h,i]perylene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Benzo[k]fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Chrysene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Dibenz(a,h)anthracene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Fluorene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Fluoranthene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Indeno[1,2,3-cd]pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Naphthalene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Phenanthrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Pyrene	<0.19		0.19		ug/L		09/23/16 13:09	09/25/16 20:51	1
Bis(2-ethylhexyl) phthalate	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
1,2,4-Trichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
1,2-Dichlorobenzene	**1.2**		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
1,3-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
1,4-Dichlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
bis(chloroisopropyl) ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4,5-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4,6-Trichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4-Dichlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4-Dimethylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4-Dinitrophenol	<9.6		9.6		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,4-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2,6-Dinitrotoluene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2-Chloronaphthalene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2-Chlorophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2-Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:51	1
2-Nitroaniline	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
2-Nitrophenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
3 & 4 Methylphenol	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:51	1
3,3'-Dichlorobenzidine	<19	*	19		ug/L		09/23/16 13:09	09/25/16 20:51	1
3-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
4,6-Dinitro-2-methylphenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Bromophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Chloro-3-methylphenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Chloroaniline	<3.8		3.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Chlorophenyl phenyl ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Nitroaniline	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
4-Nitrophenol	<7.7		7.7		ug/L		09/23/16 13:09	09/25/16 20:51	1
Bis(2-chloroethoxy)methane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Bis(2-chloroethyl)ether	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Butyl benzyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Carbazole	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:51	1

Client Sample ID: DUP-1

Lab Sample ID: 680-130081-22

Date Collected: 09/20/16 00:00

Matrix: Water

Date Received: 09/22/16 09:18

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Diethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Dimethyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Hexachlorobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Hexachlorobutadiene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Hexachlorocyclopentadiene	<1.9		1.9		ug/L		09/23/16 13:09	09/25/16 20:51	1
Hexachloroethane	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Isophorone	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Nitrobenzene	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Pentachlorophenol	<4.8		4.8		ug/L		09/23/16 13:09	09/25/16 20:51	1
Phenol	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Di-n-octyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
N-Nitrosodi-n-propylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
N-Nitrosodiphenylamine	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1
Di-n-butyl phthalate	<0.96		0.96		ug/L		09/23/16 13:09	09/25/16 20:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*61*		*20 - 113*	*09/23/16 13:09*	*09/25/16 20:51*	*1*
Nitrobenzene-d5	*69*		*37 - 103*	*09/23/16 13:09*	*09/25/16 20:51*	*1*
Terphenyl-d14	*65*		*22 - 121*	*09/23/16 13:09*	*09/25/16 20:51*	*1*
2,4,6-Tribromophenol	*73*		*39 - 133*	*09/23/16 13:09*	*09/25/16 20:51*	*1*
2-Fluorophenol	*63*		*18 - 112*	*09/23/16 13:09*	*09/25/16 20:51*	*1*
2-Fluorobiphenyl	*68*		*31 - 107*	*09/23/16 13:09*	*09/25/16 20:51*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: DUP-1
Date Collected: 09/20/16 00:00
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-22
Matrix: Water

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	470		96		ug/L		09/23/16 13:09	09/26/16 19:31	50

Client Sample ID: DUP-2

Lab Sample ID: 680-130081-23

Date Collected: 09/20/16 00:00

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<5000		5000		ug/L			09/28/16 15:29	500
Benzene	<500		500		ug/L			09/28/16 15:29	500
Bromoform	<500		500		ug/L			09/28/16 15:29	500
Bromomethane	<2500		2500		ug/L			09/28/16 15:29	500
2-Butanone (MEK)	<5000		5000		ug/L			09/28/16 15:29	500
Carbon disulfide	<1000		1000		ug/L			09/28/16 15:29	500
Carbon tetrachloride	<500		500		ug/L			09/28/16 15:29	500
Chlorobenzene	<500		500		ug/L			09/28/16 15:29	500
Chlorodibromomethane	<500		500		ug/L			09/28/16 15:29	500
Chloroethane	<2500		2500		ug/L			09/28/16 15:29	500
Chloroform	<500		500		ug/L			09/28/16 15:29	500
Chloromethane	<500		500		ug/L			09/28/16 15:29	500
cis-1,2-Dichloroethene	<500		500		ug/L			09/28/16 15:29	500
cis-1,3-Dichloropropene	<500		500		ug/L			09/28/16 15:29	500
1,2-Dichlorobenzene	<500		500		ug/L			09/28/16 15:29	500
1,4-Dichlorobenzene	<500		500		ug/L			09/28/16 15:29	500
Dichlorobromomethane	<500		500		ug/L			09/28/16 15:29	500
1,1-Dichloroethane	<500		500		ug/L			09/28/16 15:29	500
1,2-Dichloroethane	<500		500		ug/L			09/28/16 15:29	500
1,1-Dichloroethene	<500		500		ug/L			09/28/16 15:29	500
1,2-Dichloropropane	<500		500		ug/L			09/28/16 15:29	500
Ethylbenzene	<500		500		ug/L			09/28/16 15:29	500
2-Hexanone	<5000		5000		ug/L			09/28/16 15:29	500
Methylene Chloride	<2500		2500		ug/L			09/28/16 15:29	500
4-Methyl-2-pentanone (MIBK)	<5000		5000		ug/L			09/28/16 15:29	500
Styrene	<500		500		ug/L			09/28/16 15:29	500
1,1,2,2-Tetrachloroethane	<500		500		ug/L			09/28/16 15:29	500
Tetrachloroethene	**51000**		500		ug/L			09/28/16 15:29	500
Toluene	<500		500		ug/L			09/28/16 15:29	500
trans-1,2-Dichloroethene	<500		500		ug/L			09/28/16 15:29	500
trans-1,3-Dichloropropene	<500		500		ug/L			09/28/16 15:29	500
1,1,1-Trichloroethane	<500		500		ug/L			09/28/16 15:29	500
1,1,2-Trichloroethane	<500		500		ug/L			09/28/16 15:29	500
Trichloroethene	<500		500		ug/L			09/28/16 15:29	500
Vinyl chloride	<500		500		ug/L			09/28/16 15:29	500
Xylenes, Total	<500		500		ug/L			09/28/16 15:29	500

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 120*		*09/28/16 15:29*	*500*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*		*09/28/16 15:29*	*500*
Dibromofluoromethane (Surr)	*99*		*80 - 122*		*09/28/16 15:29*	*500*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/28/16 15:29*	*500*

Client Sample ID: Trip Blank

Lab Sample ID: 680-130081-24

Date Collected: 09/20/16 00:00

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 09:01	1
Benzene	<1.0		1.0		ug/L			09/28/16 09:01	1
Bromoform	<1.0		1.0		ug/L			09/28/16 09:01	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 09:01	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 09:01	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 09:01	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 09:01	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 09:01	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 09:01	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 09:01	1
Chloroform	<1.0		1.0		ug/L			09/28/16 09:01	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 09:01	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:01	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:01	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:01	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:01	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 09:01	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:01	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:01	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:01	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 09:01	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 09:01	1
2-Hexanone	<10		10		ug/L			09/28/16 09:01	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 09:01	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 09:01	1
Styrene	<1.0		1.0		ug/L			09/28/16 09:01	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 09:01	1
Tetrachloroethene	<1.0		1.0		ug/L			09/28/16 09:01	1
Toluene	<1.0		1.0		ug/L			09/28/16 09:01	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:01	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:01	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:01	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:01	1
Trichloroethene	<1.0		1.0		ug/L			09/28/16 09:01	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 09:01	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 09:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 09:01*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*09/28/16 09:01*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 09:01*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/28/16 09:01*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(80-120)	(73-131)	(80-122)	(80-120)
680-130081-1	MW-3	102	100	97	106
680-130081-2	MW-6R	99	100	96	106
680-130081-3	MW-7S	102	95	95	106
680-130081-4	MW-7M	99	106	101	104
680-130081-4 - DL	MW-7M	96	112	103	103
680-130081-5	MW-7D	102	99	96	105
680-130081-6	MW-7BR	100	101	97	103
680-130081-7	MW-11	102	101	96	106
680-130081-8	MW-12	101	93	101	100
680-130081-9	MW-12D	98	104	108	99
680-130081-10	MW-16	97	105	108	100
680-130081-11	MW-17D	94	107	110	99
680-130081-12	MW-19	96	110	112	99
680-130081-13	MW-22	93	116	116	98
680-130081-14	MW-22BR	93	119	117	99
680-130081-14 - DL	MW-22BR	99	107	101	106
680-130081-15	MW-27S	92	115	117	98
680-130081-16	MW-27D	95	106	110	99
680-130081-17	MW-29S	101	94	102	100
680-130081-18	MW-29D	92	117	117	99
680-130081-19	MW-30	101	94	101	100
680-130081-20	EB-1	103	92	100	101
680-130081-21	IDW-1	101	101	98	109
680-130081-22	DUP-1	99	103	98	107
680-130081-23	DUP-2	99	102	99	107
680-130081-24	Trip Blank	101	97	96	105
LCS 680-451021/3	Lab Control Sample	102	97	97	99
LCS 680-451182/3	Lab Control Sample	103	97	104	102
LCS 680-451349/3	Lab Control Sample	98	102	99	97
LCSD 680-451021/4	Lab Control Sample Dup	103	98	97	99
LCSD 680-451182/4	Lab Control Sample Dup	106	100	108	102
LCSD 680-451349/4	Lab Control Sample Dup	102	105	103	100
MB 680-451021/8	Method Blank	103	95	94	106
MB 680-451182/8	Method Blank	102	94	100	100
MB 680-451349/8	Method Blank	101	96	96	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		PHL	NBZ	TPH	TBP	2FP	FBP
Lab Sample ID	Client Sample ID	(20-113)	(37-103)	(22-121)	(39-133)	(18-112)	(31-107)
680-130081-2	MW-6R	42	41	39	46	14 X	38

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)					
		PHL	NBZ	TPH	TBP	2FP	FBP
Lab Sample ID	Client Sample ID	(20-113)	(37-103)	(22-121)	(39-133)	(18-112)	(31-107)
680-130081-2 MS	MW-6R	58	52	54	61	20	50
680-130081-2 MSD	MW-6R	39	36 X	32	42	14 X	35
680-130081-3	MW-7S	68	82	83	85	70	80
680-130081-5	MW-7D	67	73	64	80	69	71
680-130081-7	MW-11	72	80	83	85	73	78
680-130081-9	MW-12D	69	81	64	88	73	81
680-130081-22	DUP-1	61	69	65	73	63	68
LCS 680-450827/8-A	Lab Control Sample	74	80	84	90	76	79
MB 680-450827/7-A	Method Blank	79	83	85	81	77	77

Surrogate Legend

PHL = Phenol-d5
NBZ = Nitrobenzene-d5
TPH = Terphenyl-d14
TBP = 2,4,6-Tribromophenol
2FP = 2-Fluorophenol
FBP = 2-Fluorobiphenyl

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

Lab Sample ID: MB 680-451021/8
Matrix: Water
Analysis Batch: 451021

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/26/16 08:27	1
Benzene	<1.0		1.0		ug/L			09/26/16 08:27	1
Bromoform	<1.0		1.0		ug/L			09/26/16 08:27	1
Bromomethane	<5.0		5.0		ug/L			09/26/16 08:27	1
2-Butanone (MEK)	<10		10		ug/L			09/26/16 08:27	1
Carbon disulfide	<2.0		2.0		ug/L			09/26/16 08:27	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/26/16 08:27	1
Chlorobenzene	<1.0		1.0		ug/L			09/26/16 08:27	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/26/16 08:27	1
Chloroethane	<5.0		5.0		ug/L			09/26/16 08:27	1
Chloroform	<1.0		1.0		ug/L			09/26/16 08:27	1
Chloromethane	<1.0		1.0		ug/L			09/26/16 08:27	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/26/16 08:27	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/26/16 08:27	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/26/16 08:27	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/26/16 08:27	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/26/16 08:27	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/26/16 08:27	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/26/16 08:27	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/26/16 08:27	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/26/16 08:27	1
Ethylbenzene	<1.0		1.0		ug/L			09/26/16 08:27	1
2-Hexanone	<10		10		ug/L			09/26/16 08:27	1
Methylene Chloride	<5.0		5.0		ug/L			09/26/16 08:27	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/26/16 08:27	1
Styrene	<1.0		1.0		ug/L			09/26/16 08:27	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/26/16 08:27	1
Tetrachloroethene	<1.0		1.0		ug/L			09/26/16 08:27	1
Toluene	<1.0		1.0		ug/L			09/26/16 08:27	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/26/16 08:27	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/26/16 08:27	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/26/16 08:27	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/26/16 08:27	1
Trichloroethene	<1.0		1.0		ug/L			09/26/16 08:27	1
Vinyl chloride	<1.0		1.0		ug/L			09/26/16 08:27	1
Xylenes, Total	<1.0		1.0		ug/L			09/26/16 08:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*103*		*80 - 120*		*09/26/16 08:27*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*73 - 131*		*09/26/16 08:27*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 122*		*09/26/16 08:27*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/26/16 08:27*	*1*

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

Lab Sample ID: LCS 680-451021/3
Matrix: Water
Analysis Batch: 451021

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	220		ug/L		88	68 - 132
Benzene	50.0	52.0		ug/L		104	80 - 120
Bromoform	50.0	48.8		ug/L		98	52 - 122
Bromomethane	50.0	46.0		ug/L		92	43 - 146
2-Butanone (MEK)	250	228		ug/L		91	79 - 125
Carbon disulfide	50.0	48.9		ug/L		98	77 - 129
Carbon tetrachloride	50.0	49.8		ug/L		100	67 - 125
Chlorobenzene	50.0	50.5		ug/L		101	80 - 120
Chlorodibromomethane	50.0	50.1		ug/L		100	68 - 120
Chloroethane	50.0	51.2		ug/L		102	48 - 145
Chloroform	50.0	52.4		ug/L		105	80 - 120
Chloromethane	50.0	52.7		ug/L		105	76 - 149
cis-1,2-Dichloroethene	50.0	51.4		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	80 - 129
1,2-Dichlorobenzene	50.0	51.7		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	51.3		ug/L		103	80 - 120
Dichlorobromomethane	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	52.0		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	52.3		ug/L		105	72 - 128
1,1-Dichloroethene	50.0	51.6		ug/L		103	80 - 120
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
Ethylbenzene	50.0	53.5		ug/L		107	80 - 120
2-Hexanone	250	243		ug/L		97	80 - 131
Methylene Chloride	50.0	48.2		ug/L		96	80 - 120
4-Methyl-2-pentanone (MIBK)	250	250		ug/L		100	80 - 134
Styrene	50.0	51.2		ug/L		102	80 - 126
1,1,2,2-Tetrachloroethane	50.0	50.4		ug/L		101	76 - 126
Tetrachloroethene	50.0	53.6		ug/L		107	71 - 123
Toluene	50.0	51.5		ug/L		103	80 - 120
trans-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120
trans-1,3-Dichloropropene	50.0	49.1		ug/L		98	80 - 128
1,1,1-Trichloroethane	50.0	56.9		ug/L		114	80 - 120
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	80 - 120
Trichloroethene	50.0	51.0		ug/L		102	80 - 120
Vinyl chloride	50.0	55.7		ug/L		111	80 - 129
Xylenes, Total	100	106		ug/L		106	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

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

Lab Sample ID: LCSD 680-451021/4
Matrix: Water
Analysis Batch: 451021

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	222		ug/L		89	68 - 132	1	30
Benzene	50.0	52.0		ug/L		104	80 - 120	0	20
Bromoform	50.0	49.6		ug/L		99	52 - 122	2	20
Bromomethane	50.0	47.8		ug/L		96	43 - 146	4	20
2-Butanone (MEK)	250	228		ug/L		91	79 - 125	0	20
Carbon disulfide	50.0	49.8		ug/L		100	77 - 129	2	20
Carbon tetrachloride	50.0	50.2		ug/L		100	67 - 125	1	20
Chlorobenzene	50.0	51.0		ug/L		102	80 - 120	1	20
Chlorodibromomethane	50.0	50.1		ug/L		100	68 - 120	0	20
Chloroethane	50.0	52.0		ug/L		104	48 - 145	1	20
Chloroform	50.0	52.9		ug/L		106	80 - 120	1	20
Chloromethane	50.0	52.6		ug/L		105	76 - 149	0	30
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120	0	20
cis-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 129	2	20
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120	0	20
1,4-Dichlorobenzene	50.0	50.8		ug/L		102	80 - 120	1	20
Dichlorobromomethane	50.0	51.7		ug/L		103	80 - 120	0	20
1,1-Dichloroethane	50.0	52.9		ug/L		106	80 - 120	2	20
1,2-Dichloroethane	50.0	52.5		ug/L		105	72 - 128	0	50
1,1-Dichloroethene	50.0	53.2		ug/L		106	80 - 120	3	20
1,2-Dichloropropane	50.0	51.2		ug/L		102	80 - 120	1	20
Ethylbenzene	50.0	53.6		ug/L		107	80 - 120	0	20
2-Hexanone	250	246		ug/L		99	80 - 131	1	20
Methylene Chloride	50.0	49.2		ug/L		98	80 - 120	2	20
4-Methyl-2-pentanone (MIBK)	250	251		ug/L		101	80 - 134	0	20
Styrene	50.0	52.0		ug/L		104	80 - 126	2	20
1,1,2,2-Tetrachloroethane	50.0	50.3		ug/L		101	76 - 126	0	20
Tetrachloroethene	50.0	53.6		ug/L		107	71 - 123	0	20
Toluene	50.0	51.7		ug/L		103	80 - 120	0	20
trans-1,2-Dichloroethene	50.0	51.6		ug/L		103	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	49.2		ug/L		98	80 - 128	0	30
1,1,1-Trichloroethane	50.0	56.5		ug/L		113	80 - 120	1	20
1,1,2-Trichloroethane	50.0	49.4		ug/L		99	80 - 120	0	20
Trichloroethene	50.0	51.5		ug/L		103	80 - 120	1	20
Vinyl chloride	50.0	55.3		ug/L		111	80 - 129	1	20
Xylenes, Total	100	106		ug/L		106	80 - 120	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*98*		*73 - 131*
Dibromofluoromethane (Surr)	*97*		*80 - 122*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*

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

Lab Sample ID: MB 680-451182/8
Matrix: Water
Analysis Batch: 451182

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/27/16 11:04	1
Benzene	<1.0		1.0		ug/L			09/27/16 11:04	1
Bromoform	<1.0		1.0		ug/L			09/27/16 11:04	1
Bromomethane	<5.0		5.0		ug/L			09/27/16 11:04	1
2-Butanone (MEK)	<10		10		ug/L			09/27/16 11:04	1
Carbon disulfide	<2.0		2.0		ug/L			09/27/16 11:04	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/27/16 11:04	1
Chlorobenzene	<1.0		1.0		ug/L			09/27/16 11:04	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/27/16 11:04	1
Chloroethane	<5.0		5.0		ug/L			09/27/16 11:04	1
Chloroform	<1.0		1.0		ug/L			09/27/16 11:04	1
Chloromethane	<1.0		1.0		ug/L			09/27/16 11:04	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:04	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 11:04	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 11:04	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/27/16 11:04	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/27/16 11:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/27/16 11:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/27/16 11:04	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:04	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/27/16 11:04	1
Ethylbenzene	<1.0		1.0		ug/L			09/27/16 11:04	1
2-Hexanone	<10		10		ug/L			09/27/16 11:04	1
Methylene Chloride	<5.0		5.0		ug/L			09/27/16 11:04	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/27/16 11:04	1
Styrene	<1.0		1.0		ug/L			09/27/16 11:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/27/16 11:04	1
Tetrachloroethene	<1.0		1.0		ug/L			09/27/16 11:04	1
Toluene	<1.0		1.0		ug/L			09/27/16 11:04	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/27/16 11:04	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/27/16 11:04	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/27/16 11:04	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/27/16 11:04	1
Trichloroethene	<1.0		1.0		ug/L			09/27/16 11:04	1
Vinyl chloride	<1.0		1.0		ug/L			09/27/16 11:04	1
Xylenes, Total	<1.0		1.0		ug/L			09/27/16 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/27/16 11:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*73 - 131*		*09/27/16 11:04*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 122*		*09/27/16 11:04*	*1*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*		*09/27/16 11:04*	*1*

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

Lab Sample ID: LCS 680-451182/3
Matrix: Water
Analysis Batch: 451182

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	229		ug/L		92	68 - 132
Benzene	50.0	50.3		ug/L		101	80 - 120
Bromoform	50.0	59.4		ug/L		119	52 - 122
Bromomethane	50.0	35.7		ug/L		71	43 - 146
2-Butanone (MEK)	250	248		ug/L		99	79 - 125
Carbon disulfide	50.0	47.8		ug/L		96	77 - 129
Carbon tetrachloride	50.0	51.8		ug/L		104	67 - 125
Chlorobenzene	50.0	52.4		ug/L		105	80 - 120
Chlorodibromomethane	50.0	55.4		ug/L		111	68 - 120
Chloroethane	50.0	44.6		ug/L		89	48 - 145
Chloroform	50.0	50.6		ug/L		101	80 - 120
Chloromethane	50.0	35.4	*	ug/L		71	76 - 149
cis-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
cis-1,3-Dichloropropene	50.0	51.6		ug/L		103	80 - 129
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
1,4-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120
Dichlorobromomethane	50.0	52.1		ug/L		104	80 - 120
1,1-Dichloroethane	50.0	49.6		ug/L		99	80 - 120
1,2-Dichloroethane	50.0	48.1		ug/L		96	72 - 128
1,1-Dichloroethene	50.0	50.5		ug/L		101	80 - 120
1,2-Dichloropropane	50.0	50.4		ug/L		101	80 - 120
Ethylbenzene	50.0	51.7		ug/L		103	80 - 120
2-Hexanone	250	227		ug/L		91	80 - 131
Methylene Chloride	50.0	42.1		ug/L		84	80 - 120
4-Methyl-2-pentanone (MIBK)	250	234		ug/L		94	80 - 134
Styrene	50.0	53.6		ug/L		107	80 - 126
1,1,2,2-Tetrachloroethane	50.0	52.1		ug/L		104	76 - 126
Tetrachloroethene	50.0	52.7		ug/L		105	71 - 123
Toluene	50.0	51.1		ug/L		102	80 - 120
trans-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120
trans-1,3-Dichloropropene	50.0	50.4		ug/L		101	80 - 128
1,1,1-Trichloroethane	50.0	49.9		ug/L		100	80 - 120
1,1,2-Trichloroethane	50.0	51.2		ug/L		102	80 - 120
Trichloroethene	50.0	52.7		ug/L		105	80 - 120
Vinyl chloride	50.0	43.3		ug/L		87	80 - 129
Xylenes, Total	100	103		ug/L		103	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*103*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*
Dibromofluoromethane (Surr)	*104*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

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

Lab Sample ID: LCSD 680-451182/4
Matrix: Water
Analysis Batch: 451182

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	248		ug/L		99	68 - 132	8	30
Benzene	50.0	51.7		ug/L		103	80 - 120	3	20
Bromoform	50.0	62.1	*	ug/L		124	52 - 122	5	20
Bromomethane	50.0	37.9		ug/L		76	43 - 146	6	20
2-Butanone (MEK)	250	259		ug/L		104	79 - 125	4	20
Carbon disulfide	50.0	49.5		ug/L		99	77 - 129	4	20
Carbon tetrachloride	50.0	52.5		ug/L		105	67 - 125	1	20
Chlorobenzene	50.0	54.0		ug/L		108	80 - 120	3	20
Chlorodibromomethane	50.0	57.9		ug/L		116	68 - 120	5	20
Chloroethane	50.0	44.3		ug/L		89	48 - 145	1	20
Chloroform	50.0	51.8		ug/L		104	80 - 120	2	20
Chloromethane	50.0	38.5		ug/L		77	76 - 149	8	30
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120	3	20
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 129	3	20
1,2-Dichlorobenzene	50.0	53.2		ug/L		106	80 - 120	1	20
1,4-Dichlorobenzene	50.0	53.1		ug/L		106	80 - 120	1	20
Dichlorobromomethane	50.0	54.3		ug/L		109	80 - 120	4	20
1,1-Dichloroethane	50.0	51.5		ug/L		103	80 - 120	4	20
1,2-Dichloroethane	50.0	50.1		ug/L		100	72 - 128	4	50
1,1-Dichloroethene	50.0	51.4		ug/L		103	80 - 120	2	20
1,2-Dichloropropane	50.0	52.0		ug/L		104	80 - 120	3	20
Ethylbenzene	50.0	53.5		ug/L		107	80 - 120	3	20
2-Hexanone	250	241		ug/L		96	80 - 131	6	20
Methylene Chloride	50.0	53.3	*	ug/L		107	80 - 120	23	20
4-Methyl-2-pentanone (MIBK)	250	244		ug/L		98	80 - 134	4	20
Styrene	50.0	55.6		ug/L		111	80 - 126	4	20
1,1,2,2-Tetrachloroethane	50.0	54.5		ug/L		109	76 - 126	4	20
Tetrachloroethene	50.0	54.8		ug/L		110	71 - 123	4	20
Toluene	50.0	52.6		ug/L		105	80 - 120	3	20
trans-1,2-Dichloroethene	50.0	52.4		ug/L		105	80 - 120	2	20
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	80 - 128	4	30
1,1,1-Trichloroethane	50.0	50.4		ug/L		101	80 - 120	1	20
1,1,2-Trichloroethane	50.0	53.8		ug/L		108	80 - 120	5	20
Trichloroethene	50.0	53.9		ug/L		108	80 - 120	2	20
Vinyl chloride	50.0	44.3		ug/L		89	80 - 129	2	20
Xylenes, Total	100	107		ug/L		107	80 - 120	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*106*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*100*		*73 - 131*
Dibromofluoromethane (Surr)	*108*		*80 - 122*
4-Bromofluorobenzene (Surr)	*102*		*80 - 120*

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

Lab Sample ID: MB 680-451349/8
Matrix: Water
Analysis Batch: 451349

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 08:41	1
Benzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Bromoform	<1.0		1.0		ug/L			09/28/16 08:41	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 08:41	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 08:41	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 08:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 08:41	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 08:41	1
Chloroform	<1.0		1.0		ug/L			09/28/16 08:41	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 08:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 08:41	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
2-Hexanone	<10		10		ug/L			09/28/16 08:41	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 08:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 08:41	1
Styrene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Tetrachloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
Toluene	<1.0		1.0		ug/L			09/28/16 08:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Trichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 08:41	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 08:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/28/16 08:41*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 08:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/28/16 08:41*	*1*

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

Lab Sample ID: LCS 680-451349/3
Matrix: Water
Analysis Batch: 451349

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	238		ug/L		95	68 - 132
Benzene	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	51.0		ug/L		102	52 - 122
Bromomethane	50.0	47.0		ug/L		94	43 - 146
2-Butanone (MEK)	250	247		ug/L		99	79 - 125
Carbon disulfide	50.0	47.0		ug/L		94	77 - 129
Carbon tetrachloride	50.0	47.3		ug/L		95	67 - 125
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Chlorodibromomethane	50.0	52.3		ug/L		105	68 - 120
Chloroethane	50.0	49.2		ug/L		98	48 - 145
Chloroform	50.0	53.1		ug/L		106	80 - 120
Chloromethane	50.0	51.5		ug/L		103	76 - 149
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	80 - 129
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
Dichlorobromomethane	50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	52.1		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	54.2		ug/L		108	72 - 128
1,1-Dichloroethene	50.0	49.4		ug/L		99	80 - 120
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120
2-Hexanone	250	254		ug/L		102	80 - 131
Methylene Chloride	50.0	49.6		ug/L		99	80 - 120
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	80 - 134
Styrene	50.0	49.2		ug/L		98	80 - 126
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	76 - 126
Tetrachloroethene	50.0	50.5		ug/L		101	71 - 123
Toluene	50.0	50.7		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 128
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

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

Lab Sample ID: LCSD 680-451349/4
Matrix: Water
Analysis Batch: 451349

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	245		ug/L		98	68 - 132	3	30
Benzene	50.0	54.1		ug/L		108	80 - 120	5	20
Bromoform	50.0	53.2		ug/L		106	52 - 122	4	20
Bromomethane	50.0	49.9		ug/L		100	43 - 146	6	20
2-Butanone (MEK)	250	253		ug/L		101	79 - 125	2	20
Carbon disulfide	50.0	50.5		ug/L		101	77 - 129	7	20
Carbon tetrachloride	50.0	51.8		ug/L		104	67 - 125	9	20
Chlorobenzene	50.0	51.0		ug/L		102	80 - 120	4	20
Chlorodibromomethane	50.0	54.9		ug/L		110	68 - 120	5	20
Chloroethane	50.0	53.1		ug/L		106	48 - 145	7	20
Chloroform	50.0	55.1		ug/L		110	80 - 120	4	20
Chloromethane	50.0	54.0		ug/L		108	76 - 149	5	30
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 129	4	20
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120	4	20
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120	3	20
Dichlorobromomethane	50.0	55.1		ug/L		110	80 - 120	4	20
1,1-Dichloroethane	50.0	54.6		ug/L		109	80 - 120	5	20
1,2-Dichloroethane	50.0	56.9		ug/L		114	72 - 128	5	50
1,1-Dichloroethene	50.0	53.6		ug/L		107	80 - 120	8	20
1,2-Dichloropropane	50.0	53.7		ug/L		107	80 - 120	4	20
Ethylbenzene	50.0	52.8		ug/L		106	80 - 120	5	20
2-Hexanone	250	266		ug/L		107	80 - 131	5	20
Methylene Chloride	50.0	52.3		ug/L		105	80 - 120	5	20
4-Methyl-2-pentanone (MIBK)	250	276		ug/L		110	80 - 134	4	20
Styrene	50.0	51.3		ug/L		103	80 - 126	4	20
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/L		105	76 - 126	3	20
Tetrachloroethene	50.0	55.2		ug/L		110	71 - 123	9	20
Toluene	50.0	53.6		ug/L		107	80 - 120	6	20
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120	7	20
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	80 - 128	5	30
1,1,1-Trichloroethane	50.0	58.4		ug/L		117	80 - 120	9	20
1,1,2-Trichloroethane	50.0	53.6		ug/L		107	80 - 120	5	20
Trichloroethene	50.0	52.5		ug/L		105	80 - 120	7	20
Vinyl chloride	50.0	54.5		ug/L		109	80 - 129	8	20
Xylenes, Total	100	106		ug/L		106	80 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level

Lab Sample ID: MB 680-450827/7-A
Matrix: Water
Analysis Batch: 451016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Acenaphthene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Acenaphthylene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Anthracene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Benzo[a]anthracene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Benzo[a]pyrene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Benzo[b]fluoranthene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Benzo[g,h,i]perylene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Benzo[k]fluoranthene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Chrysene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Dibenz(a,h)anthracene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Fluorene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Fluoranthene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Indeno[1,2,3-cd]pyrene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Naphthalene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Phenanthrene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Pyrene	<0.20		0.20		ug/L		09/23/16 13:09	09/25/16 18:14	1
Bis(2-ethylhexyl) phthalate	<5.0		5.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
1,2,4-Trichlorobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
1,3-Dichlorobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
1,4-Dioxane	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
bis(chloroisopropyl) ether	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4,5-Trichlorophenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4,6-Trichlorophenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4-Dichlorophenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4-Dimethylphenol	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4-Dinitrophenol	<10		10		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,4-Dinitrotoluene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2,6-Dinitrotoluene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2-Chloronaphthalene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2-Chlorophenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2-Methylphenol	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2-Nitroaniline	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
2-Nitrophenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
3 & 4 Methylphenol	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
3,3'-Dichlorobenzidine	<20		20		ug/L		09/23/16 13:09	09/25/16 18:14	1
3-Nitroaniline	<5.0		5.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4,6-Dinitro-2-methylphenol	<5.0		5.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Bromophenyl phenyl ether	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Chloro-3-methylphenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Chloroaniline	<4.0		4.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Chlorophenyl phenyl ether	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Nitroaniline	<5.0		5.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
4-Nitrophenol	<8.0		8.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Bis(2-chloroethoxy)methane	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Bis(2-chloroethyl)ether	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: MB 680-450827/7-A
Matrix: Water
Analysis Batch: 451016

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 450827

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Butyl benzyl phthalate	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Carbazole	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Dibenzofuran	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Diethyl phthalate	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Dimethyl phthalate	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Hexachlorobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Hexachlorobutadiene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Hexachlorocyclopentadiene	<2.0		2.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Hexachloroethane	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Isophorone	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Nitrobenzene	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Pentachlorophenol	<5.0		5.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Phenol	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Di-n-octyl phthalate	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
N-Nitrosodi-n-propylamine	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
N-Nitrosodiphenylamine	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1
Di-n-butyl phthalate	<1.0		1.0		ug/L		09/23/16 13:09	09/25/16 18:14	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Phenol-d5	*79*		*20 - 113*	*09/23/16 13:09*	*09/25/16 18:14*	*1*
Nitrobenzene-d5	*83*		*37 - 103*	*09/23/16 13:09*	*09/25/16 18:14*	*1*
Terphenyl-d14	*85*		*22 - 121*	*09/23/16 13:09*	*09/25/16 18:14*	*1*
2,4,6-Tribromophenol	*81*		*39 - 133*	*09/23/16 13:09*	*09/25/16 18:14*	*1*
2-Fluorophenol	*77*		*18 - 112*	*09/23/16 13:09*	*09/25/16 18:14*	*1*
2-Fluorobiphenyl	*77*		*31 - 107*	*09/23/16 13:09*	*09/25/16 18:14*	*1*

Lab Sample ID: LCS 680-450827/8-A
Matrix: Water
Analysis Batch: 451016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	10.0	7.26		ug/L		73	33 - 130
Acenaphthene	10.0	7.67		ug/L		77	41 - 130
Acenaphthylene	10.0	8.01		ug/L		80	37 - 130
Anthracene	10.0	8.60		ug/L		86	48 - 130
Benzo[a]anthracene	10.0	8.22		ug/L		82	52 - 130
Benzo[a]pyrene	10.0	7.84		ug/L		78	44 - 130
Benzo[b]fluoranthene	10.0	7.91		ug/L		79	44 - 130
Benzo[g,h,i]perylene	10.0	7.81		ug/L		78	31 - 130
Benzo[k]fluoranthene	10.0	8.02		ug/L		80	39 - 131
Chrysene	10.0	7.92		ug/L		79	47 - 130
Dibenz(a,h)anthracene	10.0	7.93		ug/L		79	36 - 130
Fluorene	10.0	8.39		ug/L		84	43 - 130
Fluoranthene	10.0	8.86		ug/L		89	50 - 130
Indeno[1,2,3-cd]pyrene	10.0	7.63		ug/L		76	30 - 130
Naphthalene	10.0	7.41		ug/L		74	40 - 130
Phenanthrene	10.0	8.50		ug/L		85	49 - 130
Pyrene	10.0	8.46		ug/L		85	45 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-450827/8-A
Matrix: Water
Analysis Batch: 451016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bis(2-ethylhexyl) phthalate	10.0	7.85		ug/L		79	40 - 130
1,2,4-Trichlorobenzene	10.0	6.47		ug/L		65	28 - 130
1,2-Dichlorobenzene	10.0	6.17		ug/L		62	32 - 130
1,3-Dichlorobenzene	10.0	5.95		ug/L		60	32 - 130
1,4-Dichlorobenzene	10.0	6.04		ug/L		60	31 - 130
1,4-Dioxane	10.0	6.31		ug/L		63	27 - 130
bis(chloroisopropyl) ether	10.0	7.74		ug/L		77	24 - 130
2,4,5-Trichlorophenol	10.0	9.14		ug/L		91	49 - 130
2,4,6-Trichlorophenol	10.0	9.03		ug/L		90	48 - 130
2,4-Dichlorophenol	10.0	8.65		ug/L		87	49 - 130
2,4-Dimethylphenol	10.0	8.52		ug/L		85	37 - 130
2,4-Dinitrophenol	20.0	17.7		ug/L		89	16 - 147
2,4-Dinitrotoluene	10.0	9.38		ug/L		94	51 - 130
2,6-Dinitrotoluene	10.0	8.97		ug/L		90	51 - 130
2-Chloronaphthalene	10.0	7.49		ug/L		75	31 - 130
2-Chlorophenol	10.0	7.90		ug/L		79	44 - 130
2-Methylphenol	10.0	8.35		ug/L		83	42 - 130
2-Nitroaniline	10.0	9.00		ug/L		90	46 - 130
2-Nitrophenol	10.0	8.49		ug/L		85	50 - 130
3 & 4 Methylphenol	10.0	8.22		ug/L		82	44 - 130
3,3'-Dichlorobenzidine	10.0	<2.0	*	ug/L		7	10 - 142
3-Nitroaniline	10.0	5.30		ug/L		53	14 - 130
4,6-Dinitro-2-methylphenol	20.0	19.1		ug/L		95	18 - 147
4-Bromophenyl phenyl ether	10.0	8.55		ug/L		86	41 - 130
4-Chloro-3-methylphenol	10.0	9.00		ug/L		90	49 - 122
4-Chloroaniline	10.0	2.12	J	ug/L		21	10 - 130
4-Chlorophenyl phenyl ether	10.0	8.02		ug/L		80	39 - 130
4-Nitroaniline	10.0	8.00		ug/L		80	38 - 130
4-Nitrophenol	20.0	18.3		ug/L		91	25 - 135
Bis(2-chloroethoxy)methane	10.0	8.31		ug/L		83	33 - 130
Bis(2-chloroethyl)ether	10.0	8.11		ug/L		81	29 - 130
Butyl benzyl phthalate	10.0	8.49		ug/L		85	42 - 130
Carbazole	10.0	9.47		ug/L		95	48 - 130
Dibenzofuran	10.0	8.10		ug/L		81	38 - 130
Diethyl phthalate	10.0	8.79		ug/L		88	46 - 130
Dimethyl phthalate	10.0	8.95		ug/L		89	48 - 130
Hexachlorobenzene	10.0	8.22		ug/L		82	42 - 130
Hexachlorobutadiene	10.0	5.65		ug/L		56	23 - 130
Hexachlorocyclopentadiene	10.0	3.58		ug/L		36	10 - 130
Hexachloroethane	10.0	5.69		ug/L		57	23 - 130
Isophorone	10.0	8.70		ug/L		87	46 - 130
Nitrobenzene	10.0	8.31		ug/L		83	41 - 130
Pentachlorophenol	20.0	18.9		ug/L		95	27 - 134
Phenol	10.0	7.15		ug/L		71	37 - 130
Di-n-octyl phthalate	10.0	7.80		ug/L		78	43 - 130
N-Nitrosodi-n-propylamine	10.0	8.75		ug/L		88	39 - 130
N-Nitrosodiphenylamine	10.0	8.47		ug/L		85	27 - 130
Di-n-butyl phthalate	10.0	9.08		ug/L		91	43 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: LCS 680-450827/8-A
Matrix: Water
Analysis Batch: 451016

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 450827

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Phenol-d5	*74*		*20 - 113*
Nitrobenzene-d5	*80*		*37 - 103*
Terphenyl-d14	*84*		*22 - 121*
2,4,6-Tribromophenol	*90*		*39 - 133*
2-Fluorophenol	*76*		*18 - 112*
2-Fluorobiphenyl	*79*		*31 - 107*

Lab Sample ID: 680-130081-2 MS
Matrix: Water
Analysis Batch: 451016

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Methylnaphthalene	2.1	F2	9.84	7.34		ug/L		53	33 - 130
Acenaphthene	1.4	F2	9.84	7.10		ug/L		58	41 - 130
Acenaphthylene	<0.20		9.84	5.61		ug/L		56	37 - 130
Anthracene	0.31	F1 F2	9.84	6.19		ug/L		60	48 - 130
Benzo[a]anthracene	<0.20	F1 F2	9.84	6.08		ug/L		62	52 - 130
Benzo[a]pyrene	<0.20	F1 F2	9.84	5.71		ug/L		58	44 - 130
Benzo[b]fluoranthene	<0.20	F1 F2	9.84	6.02		ug/L		61	44 - 130
Benzo[g,h,i]perylene	<0.20	F2	9.84	5.82		ug/L		59	31 - 130
Benzo[k]fluoranthene	<0.20	F2	9.84	6.59		ug/L		67	39 - 131
Chrysene	<0.20	F1 F2	9.84	6.02		ug/L		61	47 - 130
Dibenz(a,h)anthracene	<0.20	F2	9.84	6.10		ug/L		62	36 - 130
Fluorene	0.69	F2	9.84	6.51		ug/L		59	43 - 130
Fluoranthene	<0.20	F1 F2	9.84	6.12		ug/L		61	50 - 130
Indeno[1,2,3-cd]pyrene	<0.20	F2	9.84	6.13		ug/L		62	30 - 130
Naphthalene	14	F1	9.84	19.6		ug/L		53	40 - 130
Phenanthrene	0.79	F1 F2	9.84	6.65		ug/L		60	49 - 130
Pyrene	<0.20	F2	9.84	6.19		ug/L		61	45 - 130
Bis(2-ethylhexyl) phthalate	<4.9		9.84	7.33		ug/L		74	40 - 130
1,2,4-Trichlorobenzene	130	E	9.84	148	E 4	ug/L		179	28 - 130
1,2-Dichlorobenzene	320	E F2	9.84	342	E 4	ug/L		221	32 - 130
1,3-Dichlorobenzene	20	E F1 F2	9.84	27.3	E	ug/L		74	32 - 130
1,4-Dichlorobenzene	97	E F2	9.84	111	E 4	ug/L		140	31 - 130
1,4-Dioxane	<2.0	F2	9.84	6.05		ug/L		53	27 - 130
bis(chloroisopropyl) ether	<0.98	F2	9.84	5.94		ug/L		60	24 - 130
2,4,5-Trichlorophenol	<0.98	F2	9.84	7.46		ug/L		71	49 - 130
2,4,6-Trichlorophenol	<0.98	F1 F2	9.84	6.43		ug/L		56	48 - 130
2,4-Dichlorophenol	<0.98	F1 F2	9.84	6.36		ug/L		61	49 - 130
2,4-Dimethylphenol	<2.0	F2	9.84	6.96		ug/L		63	37 - 130
2,4-Dinitrophenol	<9.8		19.7	<9.8		ug/L		43	16 - 147
2,4-Dinitrotoluene	<0.98	F1 F2	9.84	6.20		ug/L		63	51 - 130
2,6-Dinitrotoluene	<0.98	F2	9.84	6.56		ug/L		67	51 - 130
2-Chloronaphthalene	<0.98	F2	9.84	5.48		ug/L		56	31 - 130
2-Chlorophenol	<0.98	F2	9.84	6.57		ug/L		67	44 - 130
2-Methylphenol	4.2	F1 F2	9.84	10.4		ug/L		63	42 - 130
2-Nitroaniline	<0.98	F2	9.84	6.86		ug/L		70	46 - 130
2-Nitrophenol	<0.98	F1 F2	9.84	5.84		ug/L		59	50 - 130

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-130081-2 MS
Matrix: Water
Analysis Batch: 451016

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
3 & 4 Methylphenol	4.7	F1 F2	9.84	11.1		ug/L		65	44 - 130
3,3'-Dichlorobenzidine	<20	* F1	9.84	<20	F1	ug/L		0	10 - 142
3-Nitroaniline	<4.9	F1 F2	9.84	<4.9	F1	ug/L		13	14 - 130
4,6-Dinitro-2-methylphenol	<4.9	F2	19.7	9.74		ug/L		49	18 - 147
4-Bromophenyl phenyl ether	<0.98	F2	9.84	5.35		ug/L		54	41 - 130
4-Chloro-3-methylphenol	<0.98	F2	9.84	6.37		ug/L		65	49 - 122
4-Chloroaniline	<3.9		9.84	7.10		ug/L		72	10 - 130
4-Chlorophenyl phenyl ether	<0.98	F2	9.84	5.25		ug/L		53	39 - 130
4-Nitroaniline	<4.9	F1	9.84	<4.9	F1	ug/L		21	38 - 130
4-Nitrophenol	<7.8	F2	19.7	15.2		ug/L		77	25 - 135
Bis(2-chloroethoxy)methane	<0.98		9.84	5.41		ug/L		55	33 - 130
Bis(2-chloroethyl)ether	<0.98		9.84	9.41		ug/L		96	29 - 130
Butyl benzyl phthalate	<0.98	F2	9.84	6.12		ug/L		62	42 - 130
Carbazole	<2.0		9.84	7.92		ug/L		73	48 - 130
Dibenzofuran	<0.98	F2	9.84	6.39		ug/L		58	38 - 130
Diethyl phthalate	<0.98	F2	9.84	7.21		ug/L		65	46 - 130
Dimethyl phthalate	<0.98	F2	9.84	6.32		ug/L		64	48 - 130
Hexachlorobenzene	<0.98	F2	9.84	5.26		ug/L		53	42 - 130
Hexachlorobutadiene	<0.98		9.84	3.38		ug/L		34	23 - 130
Hexachlorocyclopentadiene	<2.0	F1	9.84	<2.0	F1	ug/L		8	10 - 130
Hexachloroethane	<0.98	F2	9.84	8.23		ug/L		84	23 - 130
Isophorone	<0.98	F1 F2	9.84	5.70		ug/L		58	46 - 130
Nitrobenzene	<0.98	F2	9.84	6.05		ug/L		61	41 - 130
Pentachlorophenol	<4.9	F2	19.7	13.3		ug/L		68	27 - 134
Phenol	1.4		9.84	7.61		ug/L		63	37 - 130
Di-n-octyl phthalate	<0.98	F1 F2	9.84	5.85		ug/L		59	43 - 130
N-Nitrosodi-n-propylamine	<0.98	F2	9.84	7.02		ug/L		71	39 - 130
N-Nitrosodiphenylamine	<0.98		9.84	6.07		ug/L		62	27 - 130
Di-n-butyl phthalate	8.5	F1 F2	9.84	16.3		ug/L		79	43 - 130

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Phenol-d5	*58*		*20 - 113*
Nitrobenzene-d5	*52*		*37 - 103*
Terphenyl-d14	*54*		*22 - 121*
2,4,6-Tribromophenol	*61*		*39 - 133*
2-Fluorophenol	*20*		*18 - 112*
2-Fluorobiphenyl	*50*		*31 - 107*

Lab Sample ID: 680-130081-2 MSD
Matrix: Water
Analysis Batch: 451016

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Methylnaphthalene	2.1	F2	9.26	5.27	F2	ug/L		34	33 - 130	33	30
Acenaphthene	1.4	F2	9.26	5.24	F2	ug/L		41	41 - 130	30	20
Acenaphthylene	<0.20		9.26	4.24		ug/L		45	37 - 130	28	30
Anthracene	0.31	F1 F2	9.26	4.47	F1 F2	ug/L		45	48 - 130	32	20
Benzo[a]anthracene	<0.20	F1 F2	9.26	4.00	F1 F2	ug/L		43	52 - 130	41	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-130081-2 MSD | **Client Sample ID: MW-6R**
Matrix: Water | **Prep Type: Total/NA**
Analysis Batch: 451016 | **Prep Batch: 450827**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzo[a]pyrene	<0.20	F1 F2	9.26	3.66	F1 F2	ug/L		40	44 - 130	44	30
Benzo[b]fluoranthene	<0.20	F1 F2	9.26	3.81	F1 F2	ug/L		41	44 - 130	45	40
Benzo[g,h,i]perylene	<0.20	F2	9.26	3.75	F2	ug/L		40	31 - 130	43	40
Benzo[k]fluoranthene	<0.20	F2	9.26	4.38	F2	ug/L		47	39 - 131	40	30
Chrysene	<0.20	F1 F2	9.26	4.07	F1 F2	ug/L		44	47 - 130	38	30
Dibenz(a,h)anthracene	<0.20	F2	9.26	4.06	F2	ug/L		44	36 - 130	40	30
Fluorene	0.69	F2	9.26	5.02	F2	ug/L		47	43 - 130	26	20
Fluoranthene	<0.20	F1 F2	9.26	4.53	F1 F2	ug/L		47	50 - 130	30	20
Indeno[1,2,3-cd]pyrene	<0.20	F2	9.26	3.91	F2	ug/L		42	30 - 130	44	30
Naphthalene	14	F1	9.26	14.5	F1	ug/L		2	40 - 130	30	30
Phenanthrene	0.79	F1 F2	9.26	4.99	F1 F2	ug/L		45	49 - 130	29	20
Pyrene	<0.20	F2	9.26	4.40	F2	ug/L		46	45 - 130	34	20
Bis(2-ethylhexyl) phthalate	<4.9		9.26	6.39		ug/L		69	40 - 130	14	30
1,2,4-Trichlorobenzene	130	E	9.26	113	E 4	ug/L		-185	28 - 130	27	40
1,2-Dichlorobenzene	320	E F2	9.26	241	E 4 F2	ug/L		-853	32 - 130	35	30
1,3-Dichlorobenzene	20	E F1 F2	9.26	18.6	E F1 F2	ug/L		-15	32 - 130	38	30
1,4-Dichlorobenzene	97	E F2	9.26	76.1	E 4 F2	ug/L		-225	31 - 130	37	30
1,4-Dioxane	<2.0	F2	9.26	4.12	F2	ug/L		35	27 - 130	38	30
bis(chloroisopropyl) ether	<0.98	F2	9.26	4.09	F2	ug/L		44	24 - 130	37	30
2,4,5-Trichlorophenol	<0.98	F2	9.26	5.29	F2	ug/L		52	49 - 130	34	20
2,4,6-Trichlorophenol	<0.98	F1 F2	9.26	4.60	F1 F2	ug/L		40	48 - 130	33	30
2,4-Dichlorophenol	<0.98	F1 F2	9.26	4.64	F1 F2	ug/L		46	49 - 130	31	30
2,4-Dimethylphenol	<2.0	F2	9.26	5.00	F2	ug/L		46	37 - 130	33	30
2,4-Dinitrophenol	<9.8		18.5	<9.3		ug/L		30	16 - 147	41	50
2,4-Dinitrotoluene	<0.98	F1 F2	9.26	4.43	F1 F2	ug/L		48	51 - 130	33	20
2,6-Dinitrotoluene	<0.98	F2	9.26	4.73	F2	ug/L		51	51 - 130	32	20
2-Chloronaphthalene	<0.98	F2	9.26	4.03	F2	ug/L		44	31 - 130	31	30
2-Chlorophenol	<0.98	F2	9.26	4.48	F2	ug/L		48	44 - 130	38	30
2-Methylphenol	4.2	F1 F2	9.26	7.20	F1 F2	ug/L		33	42 - 130	36	30
2-Nitroaniline	<0.98	F2	9.26	4.94	F2	ug/L		53	46 - 130	32	20
2-Nitrophenol	<0.98	F1 F2	9.26	4.11	F1 F2	ug/L		44	50 - 130	35	30
3 & 4 Methylphenol	4.7	F1 F2	9.26	7.59	F1 F2	ug/L		32	44 - 130	37	30
3,3'-Dichlorobenzidine	<20	* F1	9.26	<19	F1	ug/L		0	10 - 142	NC	50
3-Nitroaniline	<4.9	F1 F2	9.26	<4.6	F1 F2	ug/L		2	14 - 130	145	50
4,6-Dinitro-2-methylphenol	<4.9	F2	18.5	6.71	F2	ug/L		36	18 - 147	37	30
4-Bromophenyl phenyl ether	<0.98	F2	9.26	4.27	F2	ug/L		46	41 - 130	23	20
4-Chloro-3-methylphenol	<0.98	F2	9.26	4.66	F2	ug/L		50	49 - 122	31	30
4-Chloroaniline	<3.9		9.26	5.19		ug/L		56	10 - 130	31	50
4-Chlorophenyl phenyl ether	<0.98	F2	9.26	4.19	F2	ug/L		45	39 - 130	23	20
4-Nitroaniline	<4.9	F1	9.26	<4.6	F1	ug/L		15	38 - 130	34	50
4-Nitrophenol	<7.8	F2	18.5	10.9	F2	ug/L		59	25 - 135	33	30
Bis(2-chloroethoxy)methane	<0.98		9.26	4.06		ug/L		44	33 - 130	29	50
Bis(2-chloroethyl)ether	<0.98		9.26	6.60		ug/L		71	29 - 130	35	50
Butyl benzyl phthalate	<0.98	F2	9.26	4.30	F2	ug/L		46	42 - 130	35	20
Carbazole	<2.0		9.26	5.86		ug/L		56	48 - 130	30	50
Dibenzofuran	<0.98	F2	9.26	4.72	F2	ug/L		43	38 - 130	30	20
Diethyl phthalate	<0.98	F2	9.26	5.19	F2	ug/L		48	46 - 130	33	20
Dimethyl phthalate	<0.98	F2	9.26	4.51	F2	ug/L		49	48 - 130	33	20

Method: 8270D LL - Semivolatile Organic Compounds by GC/MS - Low Level (Continued)

Lab Sample ID: 680-130081-2 MSD
Matrix: Water
Analysis Batch: 451016

Client Sample ID: MW-6R
Prep Type: Total/NA
Prep Batch: 450827

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexachlorobenzene	<0.98	F2	9.26	3.86	F2	ug/L		42	42 - 130	31	20
Hexachlorobutadiene	<0.98		9.26	2.71		ug/L		29	23 - 130	22	30
Hexachlorocyclopentadiene	<2.0	F1	9.26	<1.9	F1	ug/L		0	10 - 130	NC	50
Hexachloroethane	<0.98	F2	9.26	5.74	F2	ug/L		62	23 - 130	36	30
Isophorone	<0.98	F1 F2	9.26	4.12	F1 F2	ug/L		44	46 - 130	32	30
Nitrobenzene	<0.98	F2	9.26	4.29	F2	ug/L		46	41 - 130	34	30
Pentachlorophenol	<4.9	F2	18.5	9.00	F2	ug/L		49	27 - 134	39	20
Phenol	1.4		9.26	5.33		ug/L		42	37 - 130	35	40
Di-n-octyl phthalate	<0.98	F1 F2	9.26	3.58	F1 F2	ug/L		39	43 - 130	48	30
N-Nitrosodi-n-propylamine	<0.98	F2	9.26	5.01	F2	ug/L		54	39 - 130	33	30
N-Nitrosodiphenylamine	<0.98		9.26	4.34		ug/L		47	27 - 130	33	40
Di-n-butyl phthalate	8.5	F1 F2	9.26	12.1	F1 F2	ug/L		38	43 - 130	30	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Phenol-d5	*39*		*20 - 113*
Nitrobenzene-d5	*36*	*X*	*37 - 103*
Terphenyl-d14	*32*		*22 - 121*
2,4,6-Tribromophenol	*42*		*39 - 133*
2-Fluorophenol	*14*	*X*	*18 - 112*
2-Fluorobiphenyl	*35*		*31 - 107*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

GC/MS VOA

Analysis Batch: 451021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-1	MW-3	Total/NA	Water	8260B	
680-130081-2	MW-6R	Total/NA	Water	8260B	
680-130081-3	MW-7S	Total/NA	Water	8260B	
680-130081-4	MW-7M	Total/NA	Water	8260B	
680-130081-5	MW-7D	Total/NA	Water	8260B	
680-130081-6	MW-7BR	Total/NA	Water	8260B	
680-130081-7	MW-11	Total/NA	Water	8260B	
MB 680-451021/8	Method Blank	Total/NA	Water	8260B	
LCS 680-451021/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-451021/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 451182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-8	MW-12	Total/NA	Water	8260B	
680-130081-9	MW-12D	Total/NA	Water	8260B	
680-130081-10	MW-16	Total/NA	Water	8260B	
680-130081-11	MW-17D	Total/NA	Water	8260B	
680-130081-12	MW-19	Total/NA	Water	8260B	
680-130081-13	MW-22	Total/NA	Water	8260B	
680-130081-14	MW-22BR	Total/NA	Water	8260B	
680-130081-15	MW-27S	Total/NA	Water	8260B	
680-130081-16	MW-27D	Total/NA	Water	8260B	
680-130081-17	MW-29S	Total/NA	Water	8260B	
680-130081-18	MW-29D	Total/NA	Water	8260B	
680-130081-19	MW-30	Total/NA	Water	8260B	
680-130081-20	EB-1	Total/NA	Water	8260B	
MB 680-451182/8	Method Blank	Total/NA	Water	8260B	
LCS 680-451182/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-451182/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Analysis Batch: 451349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-4 - DL	MW-7M	Total/NA	Water	8260B	
680-130081-14 - DL	MW-22BR	Total/NA	Water	8260B	
680-130081-21	IDW-1	Total/NA	Water	8260B	
680-130081-22	DUP-1	Total/NA	Water	8260B	
680-130081-23	DUP-2	Total/NA	Water	8260B	
680-130081-24	Trip Blank	Total/NA	Water	8260B	
MB 680-451349/8	Method Blank	Total/NA	Water	8260B	
LCS 680-451349/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-451349/4	Lab Control Sample Dup	Total/NA	Water	8260B	

GC/MS Semi VOA

Prep Batch: 450827

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-2	MW-6R	Total/NA	Water	3520C	
680-130081-2 - DL	MW-6R	Total/NA	Water	3520C	
680-130081-3	MW-7S	Total/NA	Water	3520C	
680-130081-5	MW-7D	Total/NA	Water	3520C	

GC/MS Semi VOA (Continued)

Prep Batch: 450827 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-5 - DL	MW-7D	Total/NA	Water	3520C	
680-130081-7	MW-11	Total/NA	Water	3520C	
680-130081-7 - DL	MW-11	Total/NA	Water	3520C	
680-130081-9	MW-12D	Total/NA	Water	3520C	
680-130081-9 - DL	MW-12D	Total/NA	Water	3520C	
680-130081-22	DUP-1	Total/NA	Water	3520C	
680-130081-22 - DL	DUP-1	Total/NA	Water	3520C	
MB 680-450827/7-A	Method Blank	Total/NA	Water	3520C	
LCS 680-450827/8-A	Lab Control Sample	Total/NA	Water	3520C	
680-130081-2 MS	MW-6R	Total/NA	Water	3520C	
680-130081-2 MSD	MW-6R	Total/NA	Water	3520C	

Analysis Batch: 451016

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-2	MW-6R	Total/NA	Water	8270D LL	450827
680-130081-3	MW-7S	Total/NA	Water	8270D LL	450827
680-130081-5	MW-7D	Total/NA	Water	8270D LL	450827
680-130081-7	MW-11	Total/NA	Water	8270D LL	450827
680-130081-9	MW-12D	Total/NA	Water	8270D LL	450827
680-130081-22	DUP-1	Total/NA	Water	8270D LL	450827
MB 680-450827/7-A	Method Blank	Total/NA	Water	8270D LL	450827
LCS 680-450827/8-A	Lab Control Sample	Total/NA	Water	8270D LL	450827
680-130081-2 MS	MW-6R	Total/NA	Water	8270D LL	450827
680-130081-2 MSD	MW-6R	Total/NA	Water	8270D LL	450827

Analysis Batch: 451128

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-2 - DL	MW-6R	Total/NA	Water	8270D LL	450827
680-130081-5 - DL	MW-7D	Total/NA	Water	8270D LL	450827
680-130081-7 - DL	MW-11	Total/NA	Water	8270D LL	450827
680-130081-9 - DL	MW-12D	Total/NA	Water	8270D LL	450827
680-130081-22 - DL	DUP-1	Total/NA	Water	8270D LL	450827

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-3 — Lab Sample ID: 680-130081-1

Date Collected: 09/20/16 10:50 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		250	451021	09/26/16 12:53	JD1	TAL SAV

Client Sample ID: MW-6R — Lab Sample ID: 680-130081-2

Date Collected: 09/20/16 13:40 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	451021	09/26/16 13:13	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 18:59	DJK	TAL SAV
Total/NA	Prep	3520C	DL		450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	50	451128	09/26/16 17:54	DJK	TAL SAV

Client Sample ID: MW-7S — Lab Sample ID: 680-130081-3

Date Collected: 09/20/16 12:25 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451021	09/26/16 13:34	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 19:21	DJK	TAL SAV

Client Sample ID: MW-7M — Lab Sample ID: 680-130081-4

Date Collected: 09/20/16 12:00 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	451021	09/26/16 13:54	JD1	TAL SAV
Total/NA	Analysis	8260B	DL	50	451349	09/28/16 12:46	JD1	TAL SAV

Client Sample ID: MW-7D — Lab Sample ID: 680-130081-5

Date Collected: 09/20/16 11:25 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	451021	09/26/16 14:14	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 19:44	DJK	TAL SAV
Total/NA	Prep	3520C	DL		450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	5	451128	09/26/16 18:18	DJK	TAL SAV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-7BR — Lab Sample ID: 680-130081-6

Date Collected: 09/20/16 15:20 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	451021	09/26/16 14:35	JD1	TAL SAV

Client Sample ID: MW-11 — Lab Sample ID: 680-130081-7

Date Collected: 09/19/16 17:35 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	451021	09/26/16 14:55	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 20:06	DJK	TAL SAV
Total/NA	Prep	3520C	DL		450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	20	451128	09/26/16 18:42	DJK	TAL SAV

Client Sample ID: MW-12 — Lab Sample ID: 680-130081-8

Date Collected: 09/20/16 09:20 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451182	09/27/16 12:12	JD1	TAL SAV

Client Sample ID: MW-12D — Lab Sample ID: 680-130081-9

Date Collected: 09/20/16 08:45 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	451182	09/27/16 13:42	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 20:29	DJK	TAL SAV
Total/NA	Prep	3520C	DL		450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	50	451128	09/26/16 19:06	DJK	TAL SAV

Client Sample ID: MW-16 — Lab Sample ID: 680-130081-10

Date Collected: 09/20/16 13:05 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1000	451182	09/27/16 14:04	JD1	TAL SAV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-17D — Lab Sample ID: 680-130081-11

Date Collected: 09/19/16 08:15 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		25	451182	09/27/16 14:27	JD1	TAL SAV

Client Sample ID: MW-19 — Lab Sample ID: 680-130081-12

Date Collected: 09/20/16 10:15 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		200	451182	09/27/16 14:49	JD1	TAL SAV

Client Sample ID: MW-22 — Lab Sample ID: 680-130081-13

Date Collected: 09/20/16 07:40 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	451182	09/27/16 15:12	JD1	TAL SAV

Client Sample ID: MW-22BR — Lab Sample ID: 680-130081-14

Date Collected: 09/20/16 07:18 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B	DL	10	451349	09/28/16 12:25	JD1	TAL SAV
Total/NA	Analysis	8260B		2	451182	09/27/16 15:34	JD1	TAL SAV

Client Sample ID: MW-27S — Lab Sample ID: 680-130081-15

Date Collected: 09/20/16 10:40 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		10	451182	09/27/16 15:57	JD1	TAL SAV

Client Sample ID: MW-27D — Lab Sample ID: 680-130081-16

Date Collected: 09/20/16 11:30 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		20	451182	09/27/16 16:19	JD1	TAL SAV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: MW-29S — Lab Sample ID: 680-130081-17

Date Collected: 09/20/16 13:00 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451182	09/27/16 12:57	JD1	TAL SAV

Client Sample ID: MW-29D — Lab Sample ID: 680-130081-18

Date Collected: 09/20/16 13:30 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		5	451182	09/27/16 16:42	JD1	TAL SAV

Client Sample ID: MW-30 — Lab Sample ID: 680-130081-19

Date Collected: 09/20/16 14:20 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451182	09/27/16 12:34	JD1	TAL SAV

Client Sample ID: EB-1 — Lab Sample ID: 680-130081-20

Date Collected: 09/20/16 13:35 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451182	09/27/16 11:27	JD1	TAL SAV

Client Sample ID: IDW-1 — Lab Sample ID: 680-130081-21

Date Collected: 09/20/16 15:30 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		100	451349	09/28/16 14:48	JD1	TAL SAV

Client Sample ID: DUP-1 — Lab Sample ID: 680-130081-22

Date Collected: 09/20/16 00:00 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		50	451349	09/28/16 15:09	JD1	TAL SAV
Total/NA	Prep	3520C			450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL		1	451016	09/25/16 20:51	DJK	TAL SAV
Total/NA	Prep	3520C	DL		450827	09/23/16 13:09	RBS	TAL SAV
Total/NA	Analysis	8270D LL	DL	50	451128	09/26/16 19:31	DJK	TAL SAV

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Client Sample ID: DUP-2

Lab Sample ID: 680-130081-23

Date Collected: 09/20/16 00:00
Matrix: Water
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		500	451349	09/28/16 15:29	JD1	TAL SAV

Client Sample ID: Trip Blank

Lab Sample ID: 680-130081-24

Date Collected: 09/20/16 00:00
Matrix: Water
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 09:01	JD1	TAL SAV

Laboratory References:

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

Charlotte Service Center

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	Arcadis	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #

Package Sealed: Yes No — Samples Sealed: Yes No

Received on Ice: Yes No — Samples Intact: Yes No N/A

Temperature °C of Cooler

Within Hold Time: Yes No — Preserv. Indicated: Yes No N/A

pH Check OK: Yes No — Res CL_2 Check OK: Yes No N/A

Sample Labels and COC Agree: Yes No COC not present

Sampler Name: MATTHEW ECKMAIR

Signature:

Project Name: Ashland Greensboro

Project Number: OH009000.NC10.16400

Project Location: Greensboro, NC

Date Required — Hard Copy: ___/___/___ Fax: ___/___/___

Lab PM: Jerry Lanier

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	SVOCs(8270C)	Additional Analyses / Remarks
		MW-3	9/20/16	1050	w	g	1		
		MW-6R		1340	w	g	1	1	1,2-dichlorobenzene included with all 8260
		MW-7S		1225	w	g	1	1	1,4-dioxane included with all 8270
		MW-7M		1200	w	g	1		
		MW-7D		1125	w	g	1	1	
		MW-7BR		1520	w	g	1		
		MW-11	9/19/16	1735	w	g	1	1	
		MW-12	9/20/16	0920	w	g	1		
		MW-12D		0845	w	g	1	1	
		MW-16		1305	w	g	1		
		MW-17D		0815	w	g	1		
		MW-19		1015	w	g	1		

680-130081 Chain of Custody

Relinquished by	Company	Date	Time	Received by	Company	Date	Time
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950	C Bonham	TA	9/21/16	1310
C Bonham	TA	9/21/16	1830	[illegible]	SAV	9-22-16	918

Matrix Key

WW = Wastewater	SE = Sediment
W = Water	SO = Solid
S = Soil	DL = Drum Liquid
SL = Sludge	DS = Drum Solid
MS = Miscellaneous	L = Leachate
OL = Oil	W = Wipe
A = Air	O = _____

Container Key

1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key

1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Send total of 23 VOC and 6 SVOC Bottle Sets plus 2 TB
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way, STE 106
Charlotte, NC 28277

Date Received: ___/___/___
Courier:
Hand Delivered:
Bill of Lading:

03/07 22/26

STL-8208 (0600)

Charlotte Service Center

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	ARCADIS	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #

Package Sealed: Yes No | Samples Sealed: Yes No

Received on Ice: Yes No | Samples Intact: Yes No N/A

Temperature °C of Cooler

Within Hold Time: Yes No | Preserv. Indicated: Yes No N/A

pH Check OK: Yes No | Res CL_2 Check OK: Yes No N/A

Sample Labels and COC Agree: Yes No | COC not present

Sampler Name: M. ECKMAIR

Signature:

Project Name: Ashland Greensboro

Project Number: OH009000.NC10.16400

Project Location: Greensboro, NC

Date Required
Hard Copy: ___/___/___
Fax: ___/___/___

Lab PM: Jerry Lanier

Refrg #
/ Cont
Volume
Preserv

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	SVOCs(8270C)	Additional Analyses / Remarks
		MW-22	9/20/16	0740	w	g	1		1,2-dichlorobenzene included with all 8260
		MW-22BR		0718	w	g	1		1,4-dioxane included with all 8270
		MW-27S		1040	w	g	1		
		MW-27D		1130	w	g	1		
		MW-29S		1300	w	g	1		
		MW-29D		1330	w	g	1		
		MW-30		1420	w	g	1		
		EB-1		1335	w	g	1		
		IDW-1		1530	w	g	1		
		DUP-1		—	w	g	1	1	
		DUP-2		—	w	g	1		
		TRIP BLANK		—	W		1		

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950	C. Bonham	TA	9/21/16	1310
C. Bonham	TA	9/21/16	1520		SAV	9-22-16	918

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Send total of 23 VOC and 6 SVOC Bottle Sets plus 2 TB
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way, STE 106
Charlotte, NC 28277

Date Received ___/___/___
Courier:
Hand Delivered ☐
Bill of Lading:

0.3/0.7 22/2.6

___2___of___2___

STL-8208 (0600)

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-130081-1

Login Number: 130081

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

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

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Monitoring Wells

TestAmerica Job ID: 680-130081-1

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.

TestAmerica

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ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Savannah
5102 LaRoche Avenue
Savannah, GA 31404
Tel: (912)354-7858

TestAmerica Job ID: 680-130081-2
Client Project/Site: Ashland Greensboro Surface Water

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

Attn: Mr. Chris Kalinowski

Authorized for release by:
9/29/2016 2:32:08 PM

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

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

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

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

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

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Job ID: 680-130081-2

Laboratory: TestAmerica Savannah

Narrative

CASE NARRATIVE

Client: ARCADIS U.S., Inc.

Project: Ashland Greensboro Surface Water

Report Number: 680-130081-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In the event of interference or analytes present at high concentrations, samples may be diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

RECEIPT
The samples were received on 09/22/2016; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 0.7º C and 2.6º C.

VOLATILE ORGANIC COMPOUNDS (GC-MS)
Samples SW-3 (680-130081-25), SW-4 (680-130081-26), SW-5 (680-130081-27), SW-6 (680-130081-28), DUP-1 (680-130081-29) and Trip Blank (680-130081-30) were analyzed for Volatile Organic Compounds (GC-MS) in accordance with EPA SW-846 Method 8260B. The samples were analyzed on 09/28/2016.

Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with analytical batch 680-451349.

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

Sample Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
680-130081-25	SW-3	Water	09/20/16 15:55	09/22/16 09:18
680-130081-26	SW-4	Water	09/20/16 16:05	09/22/16 09:18
680-130081-27	SW-5	Water	09/20/16 16:20	09/22/16 09:18
680-130081-28	SW-6	Water	09/20/16 16:30	09/22/16 09:18
680-130081-29	DUP-1	Water	09/20/16 00:00	09/22/16 09:18
680-130081-30	Trip Blank	Water	09/20/16 00:00	09/22/16 09:18

Method Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL SAV

Protocol References:

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

Laboratory References:

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

Glossary

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

Detection Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-3 — Lab Sample ID: 680-130081-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	1.0		1.0		ug/L	1		8260B	Total/NA
cis-1,2-Dichloroethene	2.4		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.5		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	10		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	4.4		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-4 — Lab Sample ID: 680-130081-26

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	2.6		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	2.5		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	12		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	4.9		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-5 — Lab Sample ID: 680-130081-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	7.9		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	7.1		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	92		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	33		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: SW-6 — Lab Sample ID: 680-130081-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.5		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	11		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	37		1.0		ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.3		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	15		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: DUP-1 — Lab Sample ID: 680-130081-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	5.0		1.0		ug/L	1		8260B	Total/NA
1,1-Dichloroethene	10		1.0		ug/L	1		8260B	Total/NA
Tetrachloroethene	34		1.0		ug/L	1		8260B	Total/NA
1,1,1-Trichloroethane	2.2		1.0		ug/L	1		8260B	Total/NA
Trichloroethene	15		1.0		ug/L	1		8260B	Total/NA

Client Sample ID: Trip Blank — Lab Sample ID: 680-130081-30

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-3

Lab Sample ID: 680-130081-25

Date Collected: 09/20/16 15:55
Date Received: 09/22/16 09:18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 09:42	1
Benzene	<1.0		1.0		ug/L			09/28/16 09:42	1
Bromoform	<1.0		1.0		ug/L			09/28/16 09:42	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 09:42	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 09:42	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 09:42	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 09:42	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 09:42	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 09:42	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 09:42	1
Chloroform	**1.0**		1.0		ug/L			09/28/16 09:42	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 09:42	1
cis-1,2-Dichloroethene	**2.4**		1.0		ug/L			09/28/16 09:42	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:42	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:42	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:42	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 09:42	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:42	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:42	1
1,1-Dichloroethene	**2.5**		1.0		ug/L			09/28/16 09:42	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 09:42	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 09:42	1
2-Hexanone	<10		10		ug/L			09/28/16 09:42	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 09:42	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 09:42	1
Styrene	<1.0		1.0		ug/L			09/28/16 09:42	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 09:42	1
Tetrachloroethene	**10**		1.0		ug/L			09/28/16 09:42	1
Toluene	<1.0		1.0		ug/L			09/28/16 09:42	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:42	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:42	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:42	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:42	1
Trichloroethene	**4.4**		1.0		ug/L			09/28/16 09:42	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 09:42	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 09:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/28/16 09:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/28/16 09:42*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 09:42*	*1*
4-Bromofluorobenzene (Surr)	*106*		*80 - 120*		*09/28/16 09:42*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-4

Lab Sample ID: 680-130081-26

Date Collected: 09/20/16 16:05
Date Received: 09/22/16 09:18

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 10:02	1
Benzene	<1.0		1.0		ug/L			09/28/16 10:02	1
Bromoform	<1.0		1.0		ug/L			09/28/16 10:02	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 10:02	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 10:02	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 10:02	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 10:02	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 10:02	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 10:02	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 10:02	1
Chloroform	<1.0		1.0		ug/L			09/28/16 10:02	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 10:02	1
cis-1,2-Dichloroethene	**2.6**		1.0		ug/L			09/28/16 10:02	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:02	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:02	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:02	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 10:02	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:02	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:02	1
1,1-Dichloroethene	**2.5**		1.0		ug/L			09/28/16 10:02	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 10:02	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 10:02	1
2-Hexanone	<10		10		ug/L			09/28/16 10:02	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 10:02	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 10:02	1
Styrene	<1.0		1.0		ug/L			09/28/16 10:02	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 10:02	1
Tetrachloroethene	**12**		1.0		ug/L			09/28/16 10:02	1
Toluene	<1.0		1.0		ug/L			09/28/16 10:02	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 10:02	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:02	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 10:02	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 10:02	1
Trichloroethene	**4.9**		1.0		ug/L			09/28/16 10:02	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 10:02	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 10:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/28/16 10:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*09/28/16 10:02*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 10:02*	*1*
4-Bromofluorobenzene (Surr)	*103*		*80 - 120*		*09/28/16 10:02*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-5

Date Collected: 09/20/16 16:20
Date Received: 09/22/16 09:18

Lab Sample ID: 680-130081-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 10:23	1
Benzene	<1.0		1.0		ug/L			09/28/16 10:23	1
Bromoform	<1.0		1.0		ug/L			09/28/16 10:23	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 10:23	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 10:23	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 10:23	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 10:23	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 10:23	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 10:23	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 10:23	1
Chloroform	<1.0		1.0		ug/L			09/28/16 10:23	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 10:23	1
cis-1,2-Dichloroethene	**7.9**		1.0		ug/L			09/28/16 10:23	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:23	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:23	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:23	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 10:23	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:23	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:23	1
1,1-Dichloroethene	**7.1**		1.0		ug/L			09/28/16 10:23	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 10:23	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 10:23	1
2-Hexanone	<10		10		ug/L			09/28/16 10:23	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 10:23	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 10:23	1
Styrene	<1.0		1.0		ug/L			09/28/16 10:23	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 10:23	1
Tetrachloroethene	**92**		1.0		ug/L			09/28/16 10:23	1
Toluene	<1.0		1.0		ug/L			09/28/16 10:23	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 10:23	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:23	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 10:23	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 10:23	1
Trichloroethene	**33**		1.0		ug/L			09/28/16 10:23	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 10:23	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 120*		*09/28/16 10:23*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*09/28/16 10:23*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 10:23*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/28/16 10:23*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-6

Lab Sample ID: 680-130081-28

Date Collected: 09/20/16 16:30

Matrix: Water

Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 10:43	1
Benzene	<1.0		1.0		ug/L			09/28/16 10:43	1
Bromoform	<1.0		1.0		ug/L			09/28/16 10:43	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 10:43	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 10:43	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 10:43	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 10:43	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 10:43	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 10:43	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 10:43	1
Chloroform	<1.0		1.0		ug/L			09/28/16 10:43	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 10:43	1
cis-1,2-Dichloroethene	**5.5**		1.0		ug/L			09/28/16 10:43	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:43	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:43	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 10:43	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 10:43	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:43	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 10:43	1
1,1-Dichloroethene	**11**		1.0		ug/L			09/28/16 10:43	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 10:43	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 10:43	1
2-Hexanone	<10		10		ug/L			09/28/16 10:43	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 10:43	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 10:43	1
Styrene	<1.0		1.0		ug/L			09/28/16 10:43	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 10:43	1
Tetrachloroethene	**37**		1.0		ug/L			09/28/16 10:43	1
Toluene	<1.0		1.0		ug/L			09/28/16 10:43	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 10:43	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 10:43	1
1,1,1-Trichloroethane	**2.3**		1.0		ug/L			09/28/16 10:43	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 10:43	1
Trichloroethene	**15**		1.0		ug/L			09/28/16 10:43	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 10:43	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 10:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 10:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*73 - 131*		*09/28/16 10:43*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/28/16 10:43*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/28/16 10:43*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: DUP-1

Lab Sample ID: 680-130081-29

Date Collected: 09/20/16 00:00
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 11:04	1
Benzene	<1.0		1.0		ug/L			09/28/16 11:04	1
Bromoform	<1.0		1.0		ug/L			09/28/16 11:04	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 11:04	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 11:04	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 11:04	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 11:04	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 11:04	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 11:04	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 11:04	1
Chloroform	<1.0		1.0		ug/L			09/28/16 11:04	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 11:04	1
cis-1,2-Dichloroethene	**5.0**		1.0		ug/L			09/28/16 11:04	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 11:04	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 11:04	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 11:04	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 11:04	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 11:04	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 11:04	1
1,1-Dichloroethene	**10**		1.0		ug/L			09/28/16 11:04	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 11:04	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 11:04	1
2-Hexanone	<10		10		ug/L			09/28/16 11:04	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 11:04	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 11:04	1
Styrene	<1.0		1.0		ug/L			09/28/16 11:04	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 11:04	1
Tetrachloroethene	**34**		1.0		ug/L			09/28/16 11:04	1
Toluene	<1.0		1.0		ug/L			09/28/16 11:04	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 11:04	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 11:04	1
1,1,1-Trichloroethane	**2.2**		1.0		ug/L			09/28/16 11:04	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 11:04	1
Trichloroethene	**15**		1.0		ug/L			09/28/16 11:04	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 11:04	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 11:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*102*		*80 - 120*		*09/28/16 11:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/28/16 11:04*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 122*		*09/28/16 11:04*	*1*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*09/28/16 11:04*	*1*

Client Sample Results

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: Trip Blank

Lab Sample ID: 680-130081-30

Date Collected: 09/20/16 00:00
Matrix: Water
Date Received: 09/22/16 09:18

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 09:21	1
Benzene	<1.0		1.0		ug/L			09/28/16 09:21	1
Bromoform	<1.0		1.0		ug/L			09/28/16 09:21	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 09:21	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 09:21	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 09:21	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 09:21	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 09:21	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 09:21	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 09:21	1
Chloroform	<1.0		1.0		ug/L			09/28/16 09:21	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 09:21	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:21	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:21	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:21	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 09:21	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 09:21	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:21	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 09:21	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:21	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 09:21	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 09:21	1
2-Hexanone	<10		10		ug/L			09/28/16 09:21	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 09:21	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 09:21	1
Styrene	<1.0		1.0		ug/L			09/28/16 09:21	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 09:21	1
Tetrachloroethene	<1.0		1.0		ug/L			09/28/16 09:21	1
Toluene	<1.0		1.0		ug/L			09/28/16 09:21	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 09:21	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 09:21	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:21	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 09:21	1
Trichloroethene	<1.0		1.0		ug/L			09/28/16 09:21	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 09:21	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 09:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 09:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/28/16 09:21*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 122*		*09/28/16 09:21*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/28/16 09:21*	*1*

Surrogate Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		TOL	12DCE	DBFM	BFB
Lab Sample ID	Client Sample ID	(80-120)	(73-131)	(80-122)	(80-120)
680-130081-25	SW-3	102	96	96	106
680-130081-26	SW-4	102	97	96	103
680-130081-27	SW-5	100	97	96	104
680-130081-28	SW-6	101	97	95	104
680-130081-29	DUP-1	102	96	95	105
680-130081-30	Trip Blank	101	96	97	104
LCS 680-451349/3	Lab Control Sample	98	102	99	97
LCSD 680-451349/4	Lab Control Sample Dup	102	105	103	100
MB 680-451349/8	Method Blank	101	96	96	104

Surrogate Legend

TOL = Toluene-d8 (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
DBFM = Dibromofluoromethane (Surr)
BFB = 4-Bromofluorobenzene (Surr)

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

Lab Sample ID: MB 680-451349/8
Matrix: Water
Analysis Batch: 451349

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	<10		10		ug/L			09/28/16 08:41	1
Benzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Bromoform	<1.0		1.0		ug/L			09/28/16 08:41	1
Bromomethane	<5.0		5.0		ug/L			09/28/16 08:41	1
2-Butanone (MEK)	<10		10		ug/L			09/28/16 08:41	1
Carbon disulfide	<2.0		2.0		ug/L			09/28/16 08:41	1
Carbon tetrachloride	<1.0		1.0		ug/L			09/28/16 08:41	1
Chlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Chlorodibromomethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Chloroethane	<5.0		5.0		ug/L			09/28/16 08:41	1
Chloroform	<1.0		1.0		ug/L			09/28/16 08:41	1
Chloromethane	<1.0		1.0		ug/L			09/28/16 08:41	1
cis-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
cis-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,4-Dichlorobenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
Dichlorobromomethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1-Dichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,2-Dichloropropane	<1.0		1.0		ug/L			09/28/16 08:41	1
Ethylbenzene	<1.0		1.0		ug/L			09/28/16 08:41	1
2-Hexanone	<10		10		ug/L			09/28/16 08:41	1
Methylene Chloride	<5.0		5.0		ug/L			09/28/16 08:41	1
4-Methyl-2-pentanone (MIBK)	<10		10		ug/L			09/28/16 08:41	1
Styrene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,2,2-Tetrachloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Tetrachloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
Toluene	<1.0		1.0		ug/L			09/28/16 08:41	1
trans-1,2-Dichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
trans-1,3-Dichloropropene	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,1-Trichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
1,1,2-Trichloroethane	<1.0		1.0		ug/L			09/28/16 08:41	1
Trichloroethene	<1.0		1.0		ug/L			09/28/16 08:41	1
Vinyl chloride	<1.0		1.0		ug/L			09/28/16 08:41	1
Xylenes, Total	<1.0		1.0		ug/L			09/28/16 08:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*101*		*80 - 120*		*09/28/16 08:41*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*73 - 131*		*09/28/16 08:41*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 122*		*09/28/16 08:41*	*1*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*09/28/16 08:41*	*1*

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

Lab Sample ID: LCS 680-451349/3
Matrix: Water
Analysis Batch: 451349

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	250	238		ug/L		95	68 - 132
Benzene	50.0	51.2		ug/L		102	80 - 120
Bromoform	50.0	51.0		ug/L		102	52 - 122
Bromomethane	50.0	47.0		ug/L		94	43 - 146
2-Butanone (MEK)	250	247		ug/L		99	79 - 125
Carbon disulfide	50.0	47.0		ug/L		94	77 - 129
Carbon tetrachloride	50.0	47.3		ug/L		95	67 - 125
Chlorobenzene	50.0	49.1		ug/L		98	80 - 120
Chlorodibromomethane	50.0	52.3		ug/L		105	68 - 120
Chloroethane	50.0	49.2		ug/L		98	48 - 145
Chloroform	50.0	53.1		ug/L		106	80 - 120
Chloromethane	50.0	51.5		ug/L		103	76 - 149
cis-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	51.0		ug/L		102	80 - 129
1,2-Dichlorobenzene	50.0	50.4		ug/L		101	80 - 120
1,4-Dichlorobenzene	50.0	49.3		ug/L		99	80 - 120
Dichlorobromomethane	50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethane	50.0	52.1		ug/L		104	80 - 120
1,2-Dichloroethane	50.0	54.2		ug/L		108	72 - 128
1,1-Dichloroethene	50.0	49.4		ug/L		99	80 - 120
1,2-Dichloropropane	50.0	51.5		ug/L		103	80 - 120
Ethylbenzene	50.0	50.1		ug/L		100	80 - 120
2-Hexanone	250	254		ug/L		102	80 - 131
Methylene Chloride	50.0	49.6		ug/L		99	80 - 120
4-Methyl-2-pentanone (MIBK)	250	266		ug/L		106	80 - 134
Styrene	50.0	49.2		ug/L		98	80 - 126
1,1,2,2-Tetrachloroethane	50.0	50.8		ug/L		102	76 - 126
Tetrachloroethene	50.0	50.5		ug/L		101	71 - 123
Toluene	50.0	50.7		ug/L		101	80 - 120
trans-1,2-Dichloroethene	50.0	49.3		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	49.8		ug/L		100	80 - 128
1,1,1-Trichloroethane	50.0	53.5		ug/L		107	80 - 120
1,1,2-Trichloroethane	50.0	51.0		ug/L		102	80 - 120
Trichloroethene	50.0	48.9		ug/L		98	80 - 120
Vinyl chloride	50.0	50.5		ug/L		101	80 - 129
Xylenes, Total	100	100		ug/L		100	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Toluene-d8 (Surr)	*98*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*102*		*73 - 131*
Dibromofluoromethane (Surr)	*99*		*80 - 122*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*

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

Lab Sample ID: LCSD 680-451349/4
Matrix: Water
Analysis Batch: 451349

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

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	250	245		ug/L		98	68 - 132	3	30
Benzene	50.0	54.1		ug/L		108	80 - 120	5	20
Bromoform	50.0	53.2		ug/L		106	52 - 122	4	20
Bromomethane	50.0	49.9		ug/L		100	43 - 146	6	20
2-Butanone (MEK)	250	253		ug/L		101	79 - 125	2	20
Carbon disulfide	50.0	50.5		ug/L		101	77 - 129	7	20
Carbon tetrachloride	50.0	51.8		ug/L		104	67 - 125	9	20
Chlorobenzene	50.0	51.0		ug/L		102	80 - 120	4	20
Chlorodibromomethane	50.0	54.9		ug/L		110	68 - 120	5	20
Chloroethane	50.0	53.1		ug/L		106	48 - 145	7	20
Chloroform	50.0	55.1		ug/L		110	80 - 120	4	20
Chloromethane	50.0	54.0		ug/L		108	76 - 149	5	30
cis-1,2-Dichloroethene	50.0	53.5		ug/L		107	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	52.9		ug/L		106	80 - 129	4	20
1,2-Dichlorobenzene	50.0	52.6		ug/L		105	80 - 120	4	20
1,4-Dichlorobenzene	50.0	51.0		ug/L		102	80 - 120	3	20
Dichlorobromomethane	50.0	55.1		ug/L		110	80 - 120	4	20
1,1-Dichloroethane	50.0	54.6		ug/L		109	80 - 120	5	20
1,2-Dichloroethane	50.0	56.9		ug/L		114	72 - 128	5	50
1,1-Dichloroethene	50.0	53.6		ug/L		107	80 - 120	8	20
1,2-Dichloropropane	50.0	53.7		ug/L		107	80 - 120	4	20
Ethylbenzene	50.0	52.8		ug/L		106	80 - 120	5	20
2-Hexanone	250	266		ug/L		107	80 - 131	5	20
Methylene Chloride	50.0	52.3		ug/L		105	80 - 120	5	20
4-Methyl-2-pentanone (MIBK)	250	276		ug/L		110	80 - 134	4	20
Styrene	50.0	51.3		ug/L		103	80 - 126	4	20
1,1,2,2-Tetrachloroethane	50.0	52.4		ug/L		105	76 - 126	3	20
Tetrachloroethene	50.0	55.2		ug/L		110	71 - 123	9	20
Toluene	50.0	53.6		ug/L		107	80 - 120	6	20
trans-1,2-Dichloroethene	50.0	53.0		ug/L		106	80 - 120	7	20
trans-1,3-Dichloropropene	50.0	52.3		ug/L		105	80 - 128	5	30
1,1,1-Trichloroethane	50.0	58.4		ug/L		117	80 - 120	9	20
1,1,2-Trichloroethane	50.0	53.6		ug/L		107	80 - 120	5	20
Trichloroethene	50.0	52.5		ug/L		105	80 - 120	7	20
Vinyl chloride	50.0	54.5		ug/L		109	80 - 129	8	20
Xylenes, Total	100	106		ug/L		106	80 - 120	5	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Toluene-d8 (Surr)	*102*		*80 - 120*
1,2-Dichloroethane-d4 (Surr)	*105*		*73 - 131*
Dibromofluoromethane (Surr)	*103*		*80 - 122*
4-Bromofluorobenzene (Surr)	*100*		*80 - 120*

QC Association Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

GC/MS VOA

Analysis Batch: 451349

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
680-130081-25	SW-3	Total/NA	Water	8260B	
680-130081-26	SW-4	Total/NA	Water	8260B	
680-130081-27	SW-5	Total/NA	Water	8260B	
680-130081-28	SW-6	Total/NA	Water	8260B	
680-130081-29	DUP-1	Total/NA	Water	8260B	
680-130081-30	Trip Blank	Total/NA	Water	8260B	
MB 680-451349/8	Method Blank	Total/NA	Water	8260B	
LCS 680-451349/3	Lab Control Sample	Total/NA	Water	8260B	
LCSD 680-451349/4	Lab Control Sample Dup	Total/NA	Water	8260B	

Lab Chronicle

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Client Sample ID: SW-3 — Lab Sample ID: 680-130081-25

Date Collected: 09/20/16 15:55 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 09:42	JD1	TAL SAV

Client Sample ID: SW-4 — Lab Sample ID: 680-130081-26

Date Collected: 09/20/16 16:05 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 10:02	JD1	TAL SAV

Client Sample ID: SW-5 — Lab Sample ID: 680-130081-27

Date Collected: 09/20/16 16:20 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 10:23	JD1	TAL SAV

Client Sample ID: SW-6 — Lab Sample ID: 680-130081-28

Date Collected: 09/20/16 16:30 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 10:43	JD1	TAL SAV

Client Sample ID: DUP-1 — Lab Sample ID: 680-130081-29

Date Collected: 09/20/16 00:00 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 11:04	JD1	TAL SAV

Client Sample ID: Trip Blank — Lab Sample ID: 680-130081-30

Date Collected: 09/20/16 00:00 — **Matrix: Water**
Date Received: 09/22/16 09:18

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	451349	09/28/16 09:21	JD1	TAL SAV

Laboratory References:

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

Charlotte Service Center

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Savannah
5102 LaRoche Ave
Savannah, GA 31404
912-354-7858
Fax. 912-352-0165

Report To:		Bill To:	
Contact:	Ryan Gerber	Contact:	Mike Dever
Company:	Arcadis	Company:	Ashland Inc.
Address:	801 Corporate Center Dr., Ste 300	Address:	5200 Blazer Pkwy, EH&S DS-4
	Raleigh, NC 27607		Dublin, OH 43017
Phone:	919-854-1282	Phone:	614-790-1586
Fax:	919-854-8445	Fax:	
Email:	ryan.gerber@arcadis-us.com	PO #:	Quote:

Shaded Areas For Internal Use Only

Lab Lot #:
Package Sealed: Yes No
Samples Sealed: Yes No
Received on Ice: Yes No
Samples Intact: Yes No N/A
Temperature °C of Cooler:
Within Hold Time: Yes No
Preserv. Indicated: Yes No N/A
pH Check OK: Yes No
Res CL_2 Check OK: Yes No N/A
Sample Labels and COC Agree: Yes No COC not present

Sampler Name: M.ECKMAIR
Signature: [signature]
Project Name: Ashland Greensboro
Project Number: OH009000.NC10.16400
Project Location: Greensboro, NC
Date Required: Hard Copy: ___/___/___ Fax: ___/___/___
Lab PM: Jerry Lanier

Refrg #:
/ Cont.: 3
Volume:
Preserv.: 1

Laboratory ID	MS-MSD	Client Sample ID	Sampling Date	Sampling Time	Matrix	Comp/Grab	VOCs (8260B)	Additional Analyses / Remarks
		SW-3	9/20/16	1555	w	g	1	1,2-dichlorobenzene included with all 8260
		SW-4	↓	1605	w	g	1	
		SW-5	↓	1620	w	g	1	
		SW-6	↓	1630	w	g	1	
		DUP-1	↓	—	w	g	1	
		Trip Blank	↓	—			1	

RELINQUISHED BY:	COMPANY:	DATE:	TIME:	RELINQUISHED BY:	COMPANY:	DATE:	TIME:
MATTHEW ECKMAIR	ANTEA GROUP	9/21/16	0950	C Bonham (Received by:)	TA	9/21/16	1310
C Bonham	TA	9/21/16	1500	[signature]	SAV	9-22-16	0988

Matrix Key
WW = Wastewater, SE = Sediment
W = Water, SO = Solid
S = Soil, DL = Drum Liquid
SL = Sludge, DS = Drum Solid
MS = Miscellaneous, L = Leachate
OL = Oil, W = Wipe
A = Air, O = _____

Container Key
1. Plastic
2. VOA Vial
3. Sterile Plastic
4. Amber Glass
5. Widemouth Glass
6. Other _____

Preservative Key
1. HCl, Cool to 4°
2. H_2SO_4, Cool to 4°
3. HNO_3, Cool to 4°
4. NaOH, Cool to 4°
5. NaOH/Zn, Cool to 4°
6. Cool to 4°
7. None

COMMENTS:
Total of 5 VOC bottle sets plus trip blank.
Please deliver Bottles to:
Antea Group
Attn: Matthew Eckmair
3530 Toringdon Way,STE 106
Charlotte, NC 28277

Date Received: ___/___/___
Courier:
Hand Delivered: ☐
Bill of Lading:

___1__of__2__

STL-8208 (0600)

03/07 2-2/26

Login Sample Receipt Checklist

Client: ARCADIS U.S., Inc.

Job Number: 680-130081-2

Login Number: 130081

List Source: TestAmerica Savannah

List Number: 1

Creator: Flanagan, Naomi V

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

Certification Summary

Client: ARCADIS U.S., Inc.
Project/Site: Ashland Greensboro Surface Water

TestAmerica Job ID: 680-130081-2

Laboratory: TestAmerica Savannah

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

Authority	Program	EPA Region	Certification ID	Expiration Date
	AFCEE		SAVLAB	
A2LA	DoD ELAP		399.01	02-28-17
A2LA	ISO/IEC 17025		399.01	02-28-17
Alabama	State Program	4	41450	06-30-17
Alaska (UST)	State Program	10	UST-104	11-05-16
Arkansas DEQ	State Program	6	88-0692	01-31-17
California	State Program	9	2939	07-31-16 *
Colorado	State Program	8	N/A	12-31-16
Connecticut	State Program	1	PH-0161	03-31-17
Florida	NELAP	4	E87052	06-30-17
GA Dept. of Agriculture	State Program	4	N/A	06-12-17
Georgia	State Program	4	N/A	06-30-17
Georgia	State Program	4	803	06-30-17
Guam	State Program	9	15-005r	04-16-17
Hawaii	State Program	9	N/A	06-30-17
Illinois	NELAP	5	200022	11-30-16
Indiana	State Program	5	N/A	06-30-17
Iowa	State Program	7	353	06-30-17
Kentucky (DW)	State Program	4	90084	12-31-16
Kentucky (UST)	State Program	4	18	06-30-17
Kentucky (WW)	State Program	4	90084	12-31-16
Louisiana	NELAP	6	30690	06-30-17
Louisiana (DW)	NELAP	6	LA160019	12-31-16
Maine	State Program	1	GA00006	09-24-18
Maryland	State Program	3	250	12-31-16
Massachusetts	State Program	1	M-GA006	06-30-17
Michigan	State Program	5	9925	06-30-17
Mississippi	State Program	4	N/A	06-30-16 *
Nebraska	State Program	7	TestAmerica-Savannah	06-30-17
New Jersey	NELAP	2	GA769	06-30-17
New Mexico	State Program	6	N/A	06-30-17
New York	NELAP	2	10842	03-31-17
North Carolina (DW)	State Program	4	13701	07-31-17
North Carolina (WW/SW)	State Program	4	269	12-31-16
Oklahoma	State Program	6	9984	08-31-17
Pennsylvania	NELAP	3	68-00474	06-30-17
Puerto Rico	State Program	2	GA00006	12-31-16
South Carolina	State Program	4	98001	06-30-17
Tennessee	State Program	4	TN02961	06-30-17
Texas	NELAP	6	T104704185-15-8	11-30-16
USDA	Federal		SAV 3-04	06-11-17
Virginia	NELAP	3	460161	06-14-17
Washington	State Program	10	C805	06-10-17
West Virginia (DW)	State Program	3	9950C	12-31-16
Wisconsin	State Program	5	999819810	08-31-17
Wyoming	State Program	8	8TMS-L	06-30-16 *

* Certification renewal pending - certification considered valid.