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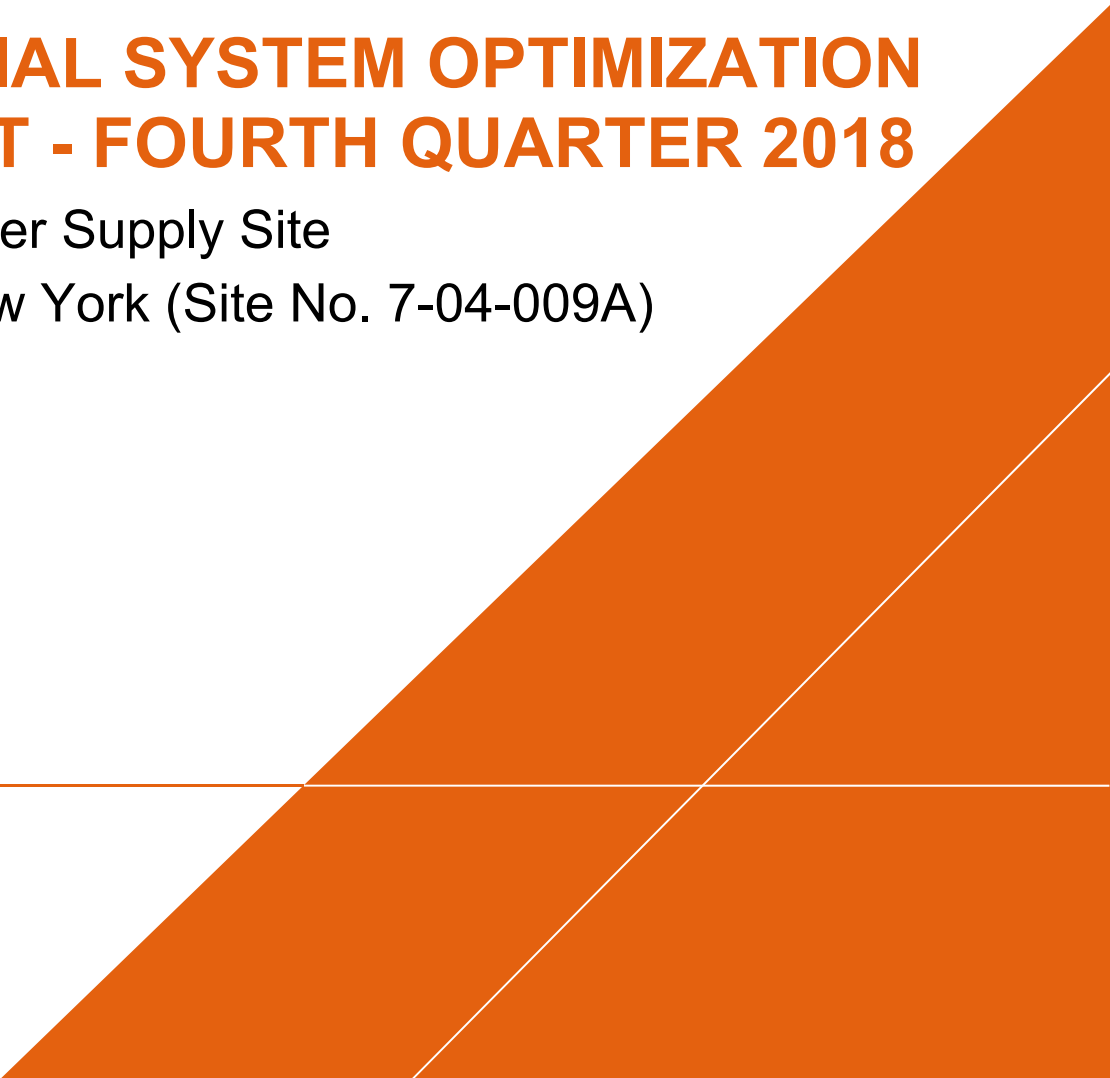
Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT - FOURTH QUARTER 2018

Vestal Water Supply Site

Vestal, New York (Site No. 7-04-009A)

March 2019

A large, solid orange geometric shape, resembling a stylized triangle or a section of a larger triangle, is positioned in the bottom right corner of the page. It is oriented diagonally, with its hypotenuse running from the bottom left towards the top right. A thin white line runs parallel to this hypotenuse, creating a smaller, similar shape within the orange area.

REMEDIAL SYSTEM OPTIMIZATION REPORT - FOURTH QUARTER 2018



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Vestal Water Supply Site
Vestal, New York (Site No. 7-04-009A)

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1 INTRODUCTION

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to Arcadis CE, Inc. (Arcadis) for Operation, Maintenance, and Monitoring at the Vestal Water Supply Site (site) in New York State (Site # 7-04-009A) (Figure 1-1).

The NYSDEC is evaluating the efficiency, effectiveness, environmental benefit, and cost of existing environmental remedies by performing a Remedial System Optimization (RSO). The purpose of the RSO is to assess the site's Conceptual Site Model (CSM), provide a summary of the performance of the remedy, document current cleanup practices, provide a summary of progress toward the cleanup goals, and provide recommendations for improvements, if required.

The Well 1-1A groundwater treatment plant was shut down on February 28, 2014 as part of the RSO to evaluate the impacts to groundwater quality while the treatment plant is not operating. In particular, plume migration is being monitored to assess the effects of groundwater withdrawals from the Town of Vestal water supply wells 1-2A and 1-3 on the groundwater plume distribution and migration. In addition, soil and groundwater samples have been collected to further evaluate the horizontal and vertical distribution of VOCs in the area of the site.

This Quarterly Report has been prepared to summarize the October 2018 through December 2018 field activities.

2 INVESTIGATION ACTIVITIES

The scope of work for the RSO was designed to provide data for use in evaluation of the existing remedy and to further characterize the nature and extent of contamination in soil and groundwater at the site. The RSO provides information that is being used to assess the efficiency of the remedy and evaluate potential alternative remedial approaches. These data are summarized in the Final Focused Feasibility Study (FFS), which was submitted to the NYSDEC on September 25, 2015.

The basic scope of work included field oversight of subcontractors (i.e., driller and surveyor), preparation of daily field logs, collection of subsurface and surface soil samples, installation of monitoring wells, monitoring well development and hydraulic conductivity testing, measuring groundwater levels, installation of groundwater level data loggers, shut-down of the Well 1-1A groundwater treatment plant for a period of at least one year, collection of groundwater samples from new and existing wells, evaluation of data, and reporting of conclusions and recommendations.

Currently the investigation includes monthly pre-treatment and post treatment (Well 1-3) sampling for the Town of Vestal water supply wells 1-2A and 1-3 and quarterly groundwater sampling from the new and existing monitoring wells.

2.1 Groundwater Sampling

The quarterly groundwater monitoring is being conducted to evaluate the distribution of the VOC groundwater plume on the north side of NYS Route 17 over time. The sampling includes wells surrounding the Town of Vestal water supply wells 1-2A, 1-3, and 1-1 (Figure 2-2). As recommended in the 4th quarter 2016 RSO report, 4th quarter 2018 groundwater samples were collected from a revised sample list (Table 2-1), which was approved by NYSDEC on January 26, 2017. The revised list includes three additional monitoring wells, 4009-7, 4009-8, and 4009-26. These wells were added to the sample list to evaluate whether the ERT source area is the cause of elevated benzene concentrations noted in the last several sampling events.

Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan. All samples were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. The USEPA ERT monitoring wells on the ECO International property and Well 1-1A are not included on the revised sample list (discussed above) and were not sampled during this event.

2.1.1 Water Level Data

On December 5, 2018 groundwater levels were measured at all wells to be sampled using an electronic water-level meter. As indicated in Section 1, the Well 1-1A treatment plant continues to be shut down, therefore, groundwater levels are representative of static (non-pumping) conditions. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. A summary of groundwater elevation data is provided in Table 2-2. Groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest and north to northwest in the deep groundwater monitoring zone toward the Susquehanna River.

2.1.2 December 2018 Groundwater Sampling

Groundwater samples were collected using PDBs that were deployed on December 5, 2018 in the wells identified on Table 2-1.

2.1.2.1 December 2018 Groundwater Sampling Results

Groundwater results from the December 2018 groundwater sampling event are provided in Table 2-3, and presented on Figures 2-2 (shallow groundwater), 2-3 (intermediate groundwater), and 2-4 (deep groundwater), respectively. Detected constituents were compared to NYSDEC Technical and Operation Guidance Series (TOGS 1.1.1) Class GA Groundwater Quality Criteria (Class GA Standard). The VOCs detected at the highest concentrations were benzene, 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC).

As shown in Table 2-3, with the exception of low estimated concentrations of acetone, a common laboratory contaminant, VOCs were not detected in the shallow groundwater zone monitoring wells 4009-11A, 4009-13A, and 4009-30A. Shallow monitoring wells 4009-9, 4009-10, and 4009-16A, each contained low concentrations of VOCs that were less than their respective Class GA Standards. Monitoring well 4009-7 (42.7 µg/L) was the only well screened in the shallow groundwater zone in which VOCs were detected above the Class GA Standards during the December 2018 sampling event. 1,1-DCE was detected at a low estimated concentration less than its Class GA Standard in monitoring well 4009-7 and cis-1,2-DCE and VC were detected at concentrations greater than the respective Class GA Standards (5 µg/L and 2.0 µg/L). As shown on Figure 2-2, VOCs have not been detected at concentrations greater than the Class GA Standards in samples from monitoring wells 4009-10, 4009-11A, 4009-13A, 4009-16A, and 4009-30A in the past seven sampling events. The concentrations detailed above in 4009-7 have generally been consistent the past seven sampling events, showing slight fluctuations (Figure 2-2).

As shown on Figure 2-3 and in Table 2-3, the highest concentrations of VOCs are in the intermediate groundwater zone, down-gradient of the source area (ECO International property). The highest total VOC concentrations in groundwater samples collected from the intermediate zone during the December 2018 sampling event were from Wells 4009-8 (3,236 µg/L), 4009-29S (1,950 µg/L), and 4009-29I (1,849 µg/L). Well 4009-8 is located on the south side of NYS Route 17, just west of the source property. Wells 4009-29S and 4009-29I are on the north side of NYS Route 17, farther downgradient of the source area where higher concentrations are typically reported for the intermediate groundwater zone. With the exception of monitoring well 4009-27I, 1,1,1-TCA, cis-1,2-DCE, and TCE were detected at concentrations greater than the respective Class GA Standards in the remaining five intermediate groundwater zone monitoring wells. 1,1-DCE and 1,1-DCA were detected in four of the remaining intermediate wells, and VC was detected in three of the remaining intermediate wells all with concentrations exceeding the respective Class GA Standards. Monitoring well 4009-27I (2.20 µg/L) contained the lowest total VOC concentration in the intermediate groundwater zone with a low concentration of TCE. As shown on Figure 2-3, the majority of the detected analytes in monitoring wells 4009-27S, 4009-27I, and 4009-29I are showing consistent or slightly decreasing concentrations over the past eight events. VOC concentrations in monitoring wells 4009-8, 4009-26, and 4009-29S continue to fluctuate; however, recent monitoring results are showing a slightly increasing trend that will continue to be monitored during the next quarter.

The following eight monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded the Class GA Standards; 4009-11, 4009-12, 4009-14, 4009-15, 4009-16, 4009-21, 4009-29D, and Well 1-1 (Figure 2-4 and Table 2-3). Benzene (discussed below) was the only VOC detected in four of the eight monitoring wells listed above at concentrations exceeding the Class GA Standard of 1.0 µg/L, which ranged from 1.5 µg/L (4009-14) to 11 µg/L (4009-21). The total VOCs measured in the remaining four deep monitoring wells where concentrations exceeded the Class GA Standards is as follows; 4009-11 (313 µg/L), 4009-12 (158 µg/L), 4009-29D (124 µg/L), and Well 1-1 (411 µg/L). 1,1,1-TCA, 1,1-DCA and cis-1,2-DCE were detected at concentrations greater than the respective Class GA Standards in all four of these remaining monitoring wells. TCE and VC were detected greater than the respective Class GA Standards in three of the four wells, and 1,1-DCE was detected greater than the Class GA Standards in two of the four monitoring wells. (Figure 2-4). VOCs were not detected in the deep groundwater zone monitoring wells 4009-18 and 4009-27D and only low estimated VOCs were detected below the Class GA Standards in monitoring wells 4009-13, 4009-19, 4009-22, 4009-28, and 4009-30 during the December 2018 sampling event (Table 2-3). As shown in Figure 2-4 there have been no VOC concentrations exceeding the Class GA Standards in samples from monitoring wells 4009-13, 4009-18, and 4009-27D for the past eight events and monitoring well 4009-28 for the past six events.

Quarterly groundwater monitoring data continue to indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. Total VOCs detected in the groundwater samples collected during the December 2018 sampling event were generally consistent with the range of results reported during the last eight events with the exception of three wells: 4009-11, 4009-26, and 4009-29S. Total VOC concentrations were at a slight increase greater than the range of typical concentrations previously recorded in these three wells (Table 2-3). VOC concentrations in 4009-8, 4009-12, 4009-29I, and 4009-29D continue to fluctuate, but remain in historical range. Concentration trends will continue to be monitored during the next quarter.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestal's water supply wells 1-2A and 1-3 (monitoring wells 4009-16/16A, 4009-18, 4009-19, 4009-21, 4009-30/30A) are generally consistent with the previous sampling events. VOCs were not detected at concentrations greater than the Class GA Standards in monitoring wells 4009-16A, 4009-18, 4009-19, 4009-30 and 4009-30A. Similar to previous sampling results, benzene was detected at a concentration exceeding the Class GA Standard (1 µg/L) in wells 4009-16 (7.3 µg/L) and 4009-21 (11 µg/L). Concentration trends will continue to be monitored during the next quarter.

Benzene concentrations have increased in the central portion of the study area over the past several years in the samples from monitoring wells, 4009-14, 4009-15, 4009-16, 4009-21 and more recently 4009-30. Benzene concentrations also continue to fluctuate in monitoring wells 4009-11 and 4009-12. Benzene was not detected at concentrations greater than the Class GA Standard in the samples collected from the shallow and intermediate zones during the December 2018 sampling event. Benzene concentrations in the samples collected from deep monitoring wells 4009-14 (1.5 µg/L), 4009-15 (8.7 µg/L), 4009-16 (7.3 µg/L), and 4009-21 (11 µg/L), exceeded the Class GA Standard of 1.0 µg/L during the December 2018 sampling event. As shown in Table 2-3, these concentrations are similar to previous sampling results. As noted previously, three monitoring wells (4009-7, 4009-8, and 4009-26) were added to the first quarter 2017 sampling list in an attempt to identify the source of the benzene increases.

However, benzene was not detected at concentrations greater than the Class GA Standard in the samples from those monitoring wells during the 2017 and 2018 sampling events. Benzene concentrations will continue to be monitored during the next quarter.

2.1.3 Town of Vestal Municipal Well Sampling

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. Samples were collected on October 22, 2018, November 30, 2018, and December 17, 2018. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 and post-treatment samples from Well 1-3 on October 30, 2018, November 12, 2018, and December 19, 2018. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260.

Until April 2018, chlorinated VOCs had not been detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 since the RSO evaluation has been implemented through 2017. In April 2018, 1,1,1-TCA was detected at an estimated concentration of 0.29 J ug/L in Well 1-3 pre-treatment sample. The Class GA Standard for this compound is 5 ug/L. As part of the RSO contingency plan, Arcadis has continued to collect a post-treatment sample from Well 1-3 since May 2018. With the exception of low estimated concentrations of acetone and methylene chloride, both common laboratory contaminants, VOCs were not detected in any of the monthly samples for this reporting period (October, November, December 2018) collected from Well 1-2A, Well 1-3, and Well-1-3 post-treatment. The monthly analytical data provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3 were also non-detect during all three months of this reporting period. As approved by the NYSDEC (May 24, 2018 via email), Arcadis will continue with routine monthly sampling of the pre-treatment (Well 1-2A, 1-3) and post-treatment of Well 1-3. A summary of the monthly analytical data is provided in Table 2-4. Laboratory analytical reporting forms are provided in Appendix A.

3 RECOMMENDATIONS

Based on the data presented herein, Arcadis recommends the following:

1. Town of Vestal Wells 1-2A and 1-3 (pre-and post-treatment) should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final remedy for OU3 (source area) is implemented.
2. The quarterly post-RSO sampling data over the last three years has demonstrated that groundwater concentrations are relatively stable. It is therefore recommended that the groundwater sampling frequency be reduced to semi-annual with sampling conducted in the spring (March/April) and fall (September/October) months until implementation of OU3 remedy.
3. The quarterly post-RSO sampling data has also demonstrated that there are minimal impacts to groundwater in several areas of the shallow groundwater that are currently included in the monitoring program. This includes several wells that have had no detections of contaminants over several years. Based on these data, it is recommended that the following monitoring wells be eliminated from the sampling program: 4009-10, 4009-11A, 4009-13A, and 4009-30A.

4 ACTIVITIES FOR NEXT QUARTER

Scheduled activities for the next quarter are summarized below.

- Monthly sampling at Town of Vestal Wells 1-2A and 1-3 (pre and post treatment).
- Quarterly groundwater sampling (March 2019).

TABLES



Table 2-1 Summary of the Groundwater Monitoring Locations
Remedial Site Optimization Report
Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	2018 Quarterly Monitoring Locations
4009-7	X
4009-8	X
4009-9	X
4009-10	X
4009-11	X
4009-11A	X
4009-12	X
4009-13	X
4009-13A	X
4009-14	X
4009-15	X
4009-16	X
4009-16A	X
4009-18	X
4009-19	X
4009-21	X
4009-22	X
4009-26	X
4009-27S	X
4009-27I	X
4009-27D	X
4009-28	X
4009-29S	X
4009-29I	X
4009-29D	X
4009-30	X
4009-30A	X
WELL 1-1	X

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014			5/12/2014			8/11/2014			11/24/2014		
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)
4009-7	824.27	18.76	NP	805.51	16.28	NP	807.99	16.91	NP	807.36	20.22	NP	804.05	19.34	NP	804.93
4009-8	824.52	19.69	NP	804.83	13.28	NP	811.24	17.60	NP	806.92	20.96	NP	803.56	20.24	NP	804.28
4009-9	825.05	20.36	NP	804.69	18.00	NP	807.05	18.82	NP	806.23	21.84	NP	803.21	21.28	NP	803.77
4009-10	831.31	26.44	NP	804.87	24.28	NP	807.03	24.95	NP	806.36	27.88	NP	803.43	27.43	NP	803.88
4009-11	830.06	26.95	NP	803.11	23.75	NP	806.31	24.89	NP	805.17	28.36	NP	801.70	26.51	NP	803.55
4009-11A	830.80	15.22	NP	815.58	14.78	NP	816.02	14.56	NP	816.24	16.69	NP	814.11	20.43	NP	810.37
4009-12	823.34	18.80	NP	804.54	16.68	NP	806.66	17.52	NP	805.82	20.90	NP	802.44	19.22	NP	804.12
4009-13	816.28	12.31	NP	803.97	8.97	NP	807.31	10.42	NP	805.86	13.60	NP	802.68	12.07	NP	804.21
4009-13A	816.17	11.74	NP	804.43	8.72	NP	807.45	9.94	NP	806.23	13.00	NP	803.17	11.93	NP	804.24
4009-14	820.71	16.62	NP	804.09	13.43	NP	807.28	15.36	NP	805.35	18.07	NP	802.64	16.57	NP	804.14
4009-15	826.54	22.63	NP	803.91	19.35	NP	807.19	11.93	NP	814.61	24.18	NP	802.36	22.53	NP	804.01
4009-16	826.72	22.68	NP	804.04	19.50	NP	807.22	21.12	NP	805.60	24.30	NP	802.42	22.70	NP	804.02
4009-16A	826.84	22.45	NP	804.39	19.45	NP	807.39	21.22	NP	805.62	24.31	NP	802.53	22.72	NP	804.12
4009-18	834.78	30.59	NP	804.19	27.61	NP	807.17	29.38	NP	805.40	32.23	NP	802.55	30.73	NP	804.05
4009-19	824.94	20.79	NP	804.15	17.78	NP	807.16	19.54	NP	805.40	22.42	NP	802.52	20.91	NP	804.03
4009-21	825.02	**	NP	804.20	15.90	NP	807.20	17.65	NP	805.45	20.55	NP	802.55	19.03	NP	804.07
4009-22	817.40	13.06	NP	804.34	9.85	NP	807.55	11.50	NP	805.90	14.03	NP	803.37	13.27	NP	804.13
4009-26	824.31	19.36	NP	804.95	16.55	NP	807.76	17.39	NP	806.92	20.62	NP	803.69	19.92	NP	804.39
4009-27S	826.19	21.97	NP	804.22	18.80	NP	807.39	20.02	NP	806.17	23.29	NP	802.90	22.02	NP	804.17
4009-27I	826.03	21.93	NP	804.10	18.63	NP	807.40	19.98	NP	806.05	23.18	NP	802.85	21.85	NP	804.18
4009-27D	825.87	21.90	NP	803.97	18.43	NP	807.44	19.88	NP	805.99	23.02	NP	802.85	21.65	NP	804.22
4009-28	821.59	17.71	NP	803.88	14.45	NP	807.14	16.00	NP	805.59	19.23	NP	802.36	17.65	NP	803.94
4009-29S	825.77	21.75	NP	804.02	18.42	NP	807.35	19.75	NP	806.02	23.03	NP	802.74	21.60	NP	804.17
4009-29I	825.68	21.94	NP	803.74	18.51	NP	807.17	19.86	NP	805.82	23.22	NP	802.46	21.61	NP	804.07
4009-29D	825.67	21.92	NP	803.75	18.54	NP	807.13	19.80	NP	805.87	23.18	NP	802.49	21.60	NP	804.07
4009-30	827.50	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
4009-30A	826.69	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM

Notes:

fbgs - feet below ground surface
famsl - feet above mean sea level

* - Elevation data from Conceptual Site Model
(Lockheed Martin, 2012).

** - Elevation data remeasured on 4/1/15
after well repairs

NM - Not measured

NP - No product / LNAPL

Starting in 2018, only wells that are
sampled will be gauged.

■ Corrected based on assumed LNAPL
density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	4/1/2015			7/13/2015			10/12/2015			3/28/2016			6/1/2016			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-7	824.27	17.74	NP	806.53	16.53	NP	807.74	21.17	NP	803.10	18.35	NP	805.92	19.69	NP	804.58	
4009-8	824.52	18.26	NP	806.26	17.05	NP	807.47	22.03	NP	802.49	18.97	NP	805.55	20.46	NP	804.06	
4009-9	825.05	19.23	NP	805.82	18.02	NP	807.03	22.83	NP	802.22	19.84	NP	805.21	21.43	NP	803.62	
4009-10	831.31	25.48	NP	805.83	24.16	NP	807.15	28.84	NP	802.47	20.95	NP	810.36	27.44	NP	803.87	
4009-11	830.06	24.89	NP	805.17	24.72	NP	805.34	28.80	NP	801.26	26.25	NP	803.81	27.69	NP	802.37	
4009-11A	830.80	14.94	NP	815.86	14.77	NP	816.03	16.97	NP	813.83	16.05	NP	814.75	16.60	NP	814.20	
4009-12	823.34	17.45	NP	805.89	17.34	NP	806.00	21.56	NP	801.78	18.9	NP	804.44	20.26	NP	803.08	
4009-13	816.28	10.37	NP	805.91	10.09	NP	806.19	14.29	NP	801.99	11.68	NP	804.60	12.98	NP	803.30	
4009-13A	816.17	10.09	NP	806.08	9.38	NP	806.79	13.97	NP	802.20	11.12	NP	805.05	12.51	NP	803.66	
4009-14	820.71	14.80	NP	805.91	14.66	NP	806.05	18.73	NP	801.98	16.23	NP	804.48	17.47	NP	803.24	
4009-15	826.54	20.76	NP	805.78	20.85	NP	805.69	24.79	NP	801.75	22.21	NP	804.33	23.48	NP	803.06	
4009-16	826.72	20.93	NP	805.79	26.87	NP	799.85	25.01	NP	801.71	22.38	NP	804.34	23.62	NP	803.10	
4009-16A	826.84	20.94	NP	805.90	27.03	NP	799.81	25.18	NP	801.66	22.51	NP	804.33	23.49	NP	803.35	
4009-18	834.78	26.51	NP	808.27	29.02	NP	805.76	33.04	NP	801.74	30.65	NP	804.13	31.59	NP	803.19	
4009-19	824.94	19.15	NP	805.79	19.19	NP	805.75	23.31	NP	801.63	20.99	NP	803.95	21.78	NP	803.16	
4009-21	825.02	**	19.33	NP	805.69	19.41	NP	805.61	23.98	NP	801.04	22.03	NP	802.99	21.98	NP	803.04
4009-22	817.40		11.55	NP	805.85	9.90	NP	807.50	13.28	NP	804.12	11.42	NP	805.98	11.95	NP	805.45
4009-26	824.31		17.94	NP	806.37	16.75	NP	807.56	21.69	NP	802.62	18.68	NP	805.63	20.12	NP	804.19
4009-27S	826.19		20.27	NP	805.92	19.56	NP	806.63	24.14	NP	802.05	21.30	NP	804.89	22.72	NP	803.47
4009-27I	826.03		20.03	NP	806.00	19.58	NP	806.45	23.98	NP	802.05	21.23	NP	804.80	22.61	NP	803.42
4009-27D	825.87		19.86	NP	806.01	19.41	NP	806.46	23.80	NP	802.07	21.05	NP	804.82	22.42	NP	803.45
4009-28	821.59		15.80	NP	805.79	15.72	NP	805.87	19.85	NP	801.74	17.3	NP	804.29	18.58	NP	803.01
4009-29S	825.77		19.80	NP	805.97	19.40	NP	806.37	23.83	NP	801.94	21.11	NP	804.66	22.43	NP	803.34
4009-29I	825.68		19.89	NP	805.79	19.63	NP	806.05	23.91	NP	801.77	21.27	NP	804.41	22.55	NP	803.13
4009-29D	825.67		19.86	NP	805.81	19.81	NP	805.86	23.89	NP	801.78	21.19	NP	804.48	22.55	NP	803.12
4009-30	827.50	**	21.32	NP	806.18	20.81	NP	806.69	25.81	NP	801.69	22.38	NP	805.12	24.26	NP	803.24
4009-30A	826.69	**	20.82	NP	805.87	20.97	NP	805.72	25.12	NP	801.57	22.41	NP	804.28	23.55	NP	803.14

Notes:

fbgs - feet below ground surface
famsl - feet above mean sea level

* - Elevation data from Conceptual Site Model
(Lockheed Martin, 2012).

** - Elevation data remeasured on 4/1/15
after well repairs

NM - Not measured

NP - No product / LNAPL

Starting in 2018, only wells that are
sampled will be gauged.

■ Corrected based on assumed LNAPL
density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	9/15/2016			11/3/2016			4/10/2017			6/6/2017			10/5/2017			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-7	824.27	21.92	NP	802.35	19.39	NP	804.88	5.33	NP	818.94	16.22	NP	808.05	20.89	NP	803.38	
4009-8	824.52	22.74	NP	801.78	19.84	NP	804.68	8.94	NP	815.58	17.04	NP	807.48	21.79	NP	802.73	
4009-9	825.05	23.19	NP	801.86	21.28	NP	803.77	8.85	NP	816.20	18.16	NP	806.89	22.79	NP	802.26	
4009-10	831.31	29.13	NP	802.18	27.52	NP	803.79	15.13	NP	816.18	24.32	NP	806.99	28.66	NP	802.65	
4009-11	830.06	21.10	NP	808.96	26.83	NP	803.23	17.43	NP	812.63	23.93	NP	806.13	29.19	NP	800.87	
4009-11A	830.80	20.63	NP	810.17	20.40	NP	810.40	11.4	NP	819.40	13.59	NP	817.21	15.26	NP	815.54	
4009-12	823.34	22.51	NP	800.83	19.45	NP	803.89	9.25	NP	814.09	16.16	NP	807.18	21.80	NP	801.54	
4009-13	816.28	15.23	NP	801.05	11.80	NP	804.48	2.23	NP	814.05	8.84	NP	807.44	14.44	NP	801.84	
4009-13A	816.17	14.73	NP	801.44	12.25	NP	803.92	1.24	NP	814.93	9.02	NP	807.15	13.88	NP	802.29	
4009-14	820.71	9.71	NP	811.00	16.68	NP	804.03	6.85	NP	813.86	14.02	NP	806.69	18.94	NP	801.77	
4009-15	826.54	25.79	NP	800.75	22.68	NP	803.86	12.59	NP	813.95	19.31	NP	807.23	25.03	NP	801.51	
4009-16	826.72	26.08	NP	800.64	22.80	NP	803.92	13.08	NP	813.64	24.04	NP	802.68	25.23	NP	801.49	
4009-16A	826.84	26.49	NP	800.35	22.70	NP	804.14	12.85	NP	813.99	19.97	NP	806.87	25.29	NP	801.55	
4009-18	834.78	34.24	NP	800.54	30.77	NP	804.01	20.99	NP	813.79	27.95	NP	806.83	33.10	NP	801.68	
4009-19	824.94	24.76	NP	800.18	21.00	NP	803.94	11.2	NP	813.74	18.16	NP	806.78	23.33	NP	801.61	
4009-21	825.02	**	24.96	NP	800.06	21.17	NP	803.85	11.55	NP	813.47	18.41	NP	806.61	23.46	NP	801.56
4009-22	817.40	13.85	NP	803.55	13.09	NP	804.31	2.21	NP	815.19	9.41	NP	807.99	11.56	NP	805.84	
4009-26	824.31	22.39	NP	801.92	19.62	NP	804.69	5.72	NP	818.59	16.85	NP	807.46	21.48	NP	802.83	
4009-27S	826.19	24.96	NP	801.23	21.97	NP	804.22	11.31	NP	814.88	18.9	NP	807.29	24.21	NP	801.98	
4009-27I	826.03	24.83	NP	801.20	21.87	NP	804.16	11.58	NP	814.45	18.75	NP	807.28	24.10	NP	801.93	
4009-27D	825.87	24.65	NP	801.22	21.70	NP	804.17	11.54	NP	814.33	18.52	NP	807.35	23.92	NP	801.95	
4009-28	821.59	20.79	NP	800.80	17.78	NP	803.81	7.35	NP	814.24	14.52	NP	807.07	20.13	NP	801.46	
4009-29S	825.77	24.71	NP	801.06	21.72	NP	804.05	11.39	NP	814.38	18.51	NP	807.26	23.95	NP	801.82	
4009-29I	825.68	24.79	NP	800.89	21.80	NP	803.88	11.44	NP	814.24	18.48	NP	807.20	24.14	NP	801.54	
4009-29D	825.67	24.79	NP	800.88	21.75	NP	803.92	12.29	NP	813.38	18.39	NP	807.28	24.08	NP	801.59	
4009-30	827.50	**	26.6	NP	800.90	23.32	NP	804.18	12.29	NP	815.21	20.86	NP	806.64	25.98	NP	801.52
4009-30A	826.69	**	26.32	NP	800.37	22.73	NP	803.96	12.83	NP	813.86	19.83	NP	806.86	25.23	NP	801.46

Notes:
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NP - No product / LNAPL
Starting in 2018, only wells that are
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Corrected based on assumed LNAPL
density of 0.85 g/cm3

Table 2-2 Summary of Groundwater Elevation Data
Remedial Site Optimization Report / Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Well I.D.	Top of Riser (ft AMSL)	12/12/2017			3/16/2018			5/31/2018			9/13/2018			12/5/2018			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-7	824.27	19.29	NP	804.98	17.27	NP	807.00	17.64	NP	806.63	17.07	NP	807.20	12.07	NP	812.20	
4009-8	824.52	20.06	NP	804.46	16.81	NP	807.71	18.36	NP	806.16	17.78	NP	806.74	12.39	NP	812.13	
4009-9	825.05	21.12	NP	803.93	18.09	NP	806.96	19.57	NP	805.48	19.23	NP	805.82	13.05	NP	812.00	
4009-10	831.31	27.23	NP	804.08	26.41	NP	804.90	25.65	NP	805.66	25.48	NP	805.83	19.33	NP	811.98	
4009-11	830.06	26.89	NP	803.17	24.55	NP	805.51	26.65	NP	803.41	24.39	NP	805.67	18.79	NP	811.27	
4009-11A	830.80	17.15	NP	813.65	13.91	NP	816.89	14.54	NP	816.26	13.58	NP	817.22	11.82	NP	818.98	
4009-12	823.34	19.58	NP	803.76	17.23	NP	806.11	18.57	NP	804.77	16.95	NP	806.39	11.37	NP	811.97	
4009-13	816.28	12.35	NP	803.93	8.86	NP	807.42	11.44	NP	804.84	9.75	NP	806.53	4.24	NP	812.04	
4009-13A	816.17	12.02	NP	804.15	9.24	NP	806.93	10.74	NP	805.43	9.44	NP	806.73	4.14	NP	812.03	
4009-14	820.71	16.82	NP	803.89	14.51	NP	806.20	16.87	NP	803.84	14.19	NP	806.52	8.60	NP	812.11	
4009-15	826.54	22.81	NP	803.73	20.49	NP	806.05	22.08	NP	804.46	20.21	NP	806.33	14.54	NP	812.00	
4009-16	826.72	22.94	NP	803.78	20.72	NP	806.00	22.23	NP	804.49	20.41	NP	806.31	14.73	NP	811.99	
4009-16A	826.84	22.91	NP	803.93	20.84	NP	806.00	21.81	NP	805.03	20.24	NP	806.60	14.80	NP	812.04	
4009-18	834.78	30.93	NP	803.85	28.89	NP	805.89	30.27	NP	804.51	28.53	NP	806.25	22.44	NP	812.34	
4009-19	824.94	21.13	NP	803.81	19.05	NP	805.89	20.43	NP	804.51	18.79	NP	806.15	13.05	NP	811.89	
4009-21	825.02	**	21.3	NP	803.72	19.53	NP	805.49	20.63	NP	804.39	20.58	NP	804.44	13.24	NP	811.78
4009-22	817.40		11.78	NP	805.62	9.93	NP	807.47	10.51	NP	806.89	9.70	NP	807.70	6.10	NP	811.30
4009-26	824.31		19.73	NP	804.58	16.60	NP	807.71	18.09	NP	806.22	17.39	NP	806.92	12.13	NP	812.18
4009-27S	826.19		22.12	NP	804.07	19.46	NP	806.73	20.98	NP	805.21	19.54	NP	806.65	14.18	NP	812.01
4009-27I	826.03		22.01	NP	804.02	19.47	NP	806.56	20.96	NP	805.07	19.48	NP	806.55	14.05	NP	811.98
4009-27D	825.87		21.84	NP	804.03	19.26	NP	806.61	20.81	NP	805.06	19.30	NP	806.57	13.92	NP	811.95
4009-28	821.59		17.92	NP	803.67	15.56	NP	806.03	17.16	NP	804.43	15.83	NP	805.76	9.45	NP	812.14
4009-29S	825.77		21.84	NP	803.93	19.32	NP	806.45	20.83	NP	804.94	19.28	NP	806.49	13.79	NP	811.98
4009-29I	825.68		21.91	NP	803.77	19.29	NP	806.39	21.04	NP	804.64	19.30	NP	806.38	13.71	NP	811.97
4009-29D	825.67		21.89	NP	803.78	19.46	NP	806.21	21.01	NP	804.66	19.26	NP	806.41	13.71	NP	811.96
4009-30	827.50	**	23.74	NP	803.76	21.56	NP	805.94	30.02	NP	797.48	21.15	NP	806.35	15.43	NP	812.07
4009-30A	826.69	**	23.05	NP	803.64	20.73	NP	805.96	22.16	NP	804.53	20.29	NP	806.40	14.76	NP	811.93

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Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-7 2/20/2014 Shallow ug/L	4009-7 5/28/2014 Shallow ug/L	4009-7 8/28/2014 Shallow ug/L	4009-7 12/9/2014 Shallow ug/L	4009-7 4/10/2017 Shallow ug/L	4009-7 6/20/2017 Shallow ug/L	4009-7 10/23/2017 Shallow ug/L	4009-7 12/28/2017 Shallow ug/L	4009-7 3/30/2018 Shallow ug/L	4009-7 6/14/2018 Shallow ug/L	4009-7 9/27/2018 Shallow ug/L	4009-7 12/19/2018 Shallow ug/L	4009-8 2/20/2014 Intermediate ug/L	4009-8 5/28/2014 Intermediate ug/L	4009-8 8/28/2014 Intermediate ug/L	4009-8 12/9/2014 Intermediate ug/L	4009-8 4/10/2017 Intermediate ug/L	4009-8 6/20/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	790 D	1000	2900 DJ	1500	560	490
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	14	13 J	20 UDJ	17 J	5.1 J	10 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	20 U	20 UDJ	25 U	10 U	10 U
1,1-Dichloroethane	5	1.0 J	0.48 J	1.0 UJ	3.3 U	1.1	0.59 J	0.44 J	0.63 J	0.47 J	0.59 J	0.62 J	0.47 J	40	62	72 DJ	58	51	45
1,1-Dichloroethene	5	1.0 U	0.29 J	1.0 UJ	3.3 U	0.44 J	0.38 J	0.39 J	0.67 J	1.0 U	0.41 J	0.53 J	1.0 U	31	120	94 DJ	120	31	80
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	130 U	10 U	10 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	50 U	10 U	10 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
2-Butanone (MEK)	50	10 U	1.4 J	10 UJ	33 U	10 U*	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	200 U	200 UDJ	250 U	100 U*	100 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	50 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	50 U
Acetone	50*	5.3 J	7.1 J	14 J	33 U	3.4 J	4.7 J	1.4 J	10 U	10 U	5.0 U	4.0 J	10 U	9.6 J	200 U	200 UDJ	250 U	100 U	100 U
Benzene	1	1.0 U	1.1	1.0 U	0.41 J	3.3 U	1.0 U	1.0 U	0.28 J	0.43 J	1.0 U	1.0 U	0.45 J	1.0 U	0.67 J	20 U	20 UDJ	25 U	10 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U*	10 U	10 U
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Chloroethane	5	1.0 U	0.3 J	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.2	20 U	20 UDJ	25 U	7.8 J	3.7 J
Chloroform	7	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.6 J	20 U	20 UDJ	25 U	10 U	10 U
Chloromethane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
cis-1,2-Dichloroethene	5	20	46	36 J	38	42	41	36	53	26	38	55	36	440 D	310	550 DJ	490	230	190
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	50 U	50 UDJ	250 U	25 U	25 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	9.1 DJ	25 U	10 U	10 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Styrene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	20 U	20 UDJ	25 U	10 U	10 U
Toluene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	0.29 J	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.1	20 U	20 UDJ	25 U	10 U	10 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	10 U
Trichloroethene	5	2.1	4.1	3.3 J	2.7 J	0.93 J	1.2	0.76 J	1.1	1.0 U	0.72 J	0.97 J	1.0 U	19	20 U	20 UDJ	7.1 J	150	160
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1 U	20 U	20 UDJ	25 U	10 U	10 U
Vinyl chloride	2	2.5	3.1	3.1 J	3.0 J	22	4.6	4.3	10	1.0 U	5.6	7.5	6.2	44	140	92 DJ	44	30	15
Xylenes, Total		2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	40 U	40 UDJ	50 U	20 U	20 U
Total VOCs		32.0	62.8	56.8	43.7	69.9	52.5	44.2	65.8	26.5	45.6	69.1	42.7	1394	1645	3717	2236	1065	984
Total VOCs (w/o Acteone or Methylene Chloride)		26.7	55.7	42.8	43.7	66.5	47.8	42.8	65.8	26.5	45.6	65.1	42.7	1384	1645	3717	2236	1065	984

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-8 10/23/2017 Intermediate ug/L	4009-8 12/28/2017 Intermediate ug/L	4009-8 3/30/2018 Intermediate ug/L	4009-8 6/14/2018 Intermediate ug/L	4009-8 9/27/2018 Intermediate ug/L	4009-8 12/19/2018 Intermediate ug/L	4009-9 2/20/2014 Shallow ug/L	4009-9 5/28/2014 Shallow ug/L	4009-9 8/28/2014 Shallow ug/L	4009-9 12/9/2014 Shallow ug/L	4009-9 4/20/2015 Shallow ug/L	4009-9 7/29/2015 Shallow ug/L	4009-9 11/4/2015 Shallow ug/L	4009-9 3/28/2016 Shallow ug/L	4009-9 6/30/2016 Shallow ug/L	4009-9 9/29/2016 Shallow ug/L	4009-9 11/28/2016 Shallow ug/L	4009-9 4/10/2017 Shallow ug/L
1,1,1-Trichloroethane	5	2500	2100	1100	800	3700	2000	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		16	13	40 U	6.7	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	96	80	51	44	150	96	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	0.38 J	1.0 U	0.39 J	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	80	70	47	34	160	110	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	50 U	100 U	400 U*	10 U	400 U	400 U	1.4 J	10 U	10 UJ	10 U	10 U	10.0 U	10.0 U	10 U	10 U	10 U	10 U	10 U*
2-Hexanone	50*	50 U	50 U	200 U	10 U*	200 U	200 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		50 U	50 U	200 U	10 U*	200 U	200 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	50 U	100 U	400 U	10 U	400 U	400 U	12	3.3 J	11 J	10 U	7.1 J	10.0 U	10.0 U	3.5 J	10 U	10 U	10 U	3.5 J
Benzene	1	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.3 J	1.3	1.0 U	3.4	2.5	1.0 U	1.0 U	3.7	1.3	1.0 U
Bromodichloromethane	50	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	4.4 J	10 U	40 U	5.2	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	10 U	10 U	40 U	0.66 J	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	500	680	490	320	910	700	6.3	4.0	13 J	7.0	1.9	15	21	4.0	21	22	19	8.2
cis-1,3-Dichloropropene	0.4	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		50 U	10 U	100 U	10 U	100 U	100 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	3.3 J	10 U	40 U	1.6 J	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	10 U	10 U	40 U	1.2 J	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	300	300	300	190	580	330	0.5 J	0.66 J	0.67 J	0.80 J	0.52 J	0.59 J	0.52 J	0.74 J	0.65 J	0.57 J	0.81 J	0.97 J
Trichlorofluoromethane	5	10 U	10 U	40 U	2.0 U	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	19	24	40 U	11	40 U	40 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U	1.0 U
Xylenes, Total		20 U	20 U	80 U	4.0 U	80 U	80 U	1.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		3519	3267	1988	1414	5500	3236	20.2	7.96	26.0	9.10	9.52	19.0	24.4	8.24	22.0	26.3	21.1	12.7
Total VOCs (w/o Acteone or Methylene Chloride)		3519	3267	1988	1414	5500	3236	8.24	4.66	15.0	9.10	2.42	19.0	24.4	4.74	22.0	26.3	21.1	9.17

Notes:
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or
reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-9 6/20/2017 Shallow ug/L	4009-9 10/23/2017 Shallow ug/L	4009-9 12/28/2017 Shallow ug/L	4009-9 3/30/2018 Shallow ug/L	4009-9 6/14/2018 Shallow ug/L	4009-9 9/27/2018 Shallow ug/L	4009-9 12/19/2018 Shallow ug/L	4009-10 2/20/2014 Shallow ug/L	4009-10 5/28/2014 Shallow ug/L	4009-10 8/28/2014 Shallow ug/L	4009-10 12/9/2014 Shallow ug/L	4009-10 4/20/2015 Shallow ug/L	4009-10 7/29/2015 Shallow ug/L	4009-10 11/4/2015 Shallow ug/L	4009-10 3/28/2016 Shallow ug/L	4009-10 6/30/2016 Shallow ug/L	4009-10 9/29/2016 Shallow ug/L	4009-10 11/28/2016 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	0.43 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.32 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.1 J	2.2 J	10 U	10 U	5.0 U	3.6 J	5.2 J	10	3.2 J	7.5 J	10 U	9.2 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	0.15 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.6 J	0.53 J	2.3 J	26	1.0 U	1.8	0.97 J	1.0 U	1.9	0.65 J	3.4
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	10	21	11	2.6	8.2	13	1.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B"U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.3	1.0 U	1.0 U	0.32 J	0.73 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Xylenes, Total		2.0 U	1.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		13.1	25.5	11.0	2.60	8.77	17.33	6.80	12.6	3.73	9.80	26.3	9.20	1.80	0.97	0.00	1.90	0.65	3.40
Total VOCs (w/o Acteone or Methylene Chloride)		10.0	23.3	11.0	2.60	8.77	13.73	1.60	2.60	0.53	2.30	26.3	0.00	1.80	0.97	0.00	1.90	0.65	3.40

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-10 4/10/2017 Shallow ug/L	4009-10 6/20/2017 Shallow ug/L	4009-10 10/23/2017 Shallow ug/L	4009-10 12/28/2017 Shallow ug/L	4009-10 3/30/2018 Shallow ug/L	4009-10 6/14/2018 Shallow ug/L	4009-10 9/27/2018 Shallow ug/L	4009-10 12/19/2018 Shallow ug/L	4009-11 2/20/2014 Deep ug/L	4009-11 5/28/2014 Deep ug/L	4009-11 8/28/2014 Deep ug/L	4009-11 12/9/2014 Deep ug/L	4009-11 4/20/2015 Deep ug/L	4009-11 7/29/2015 Deep ug/L	4009-11 11/4/2015 Deep ug/L	4009-11 3/28/2016 Deep ug/L	4009-11 6/30/2016 Deep ug/L	4009-11 9/29/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	0.41 J	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.0 U	1.0 U	1.0 U	79	1.0 U	57	87
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.2
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	20	0.76 J	13	21
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	8.7	1.0 U	3.4	5.4
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U*	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.4 J	10 U	3.1 J	10 U	10 U	5.0 U	3.1 J	4.8 J	7.8 J	4.6 J	10 UJ	10 U	6.7 J	10 U	10 U	4.4 J	10 U	10 U
Benzene	1	1.0 U	1.0 U	0.45 J	1.0 U	1.0 U	1.0 U	0.51 J	0.61 J	1.0 U	1.0 U	1.0 UJ	7.8	5.6	8.4	1.0 U	18	1.0 U	1.3
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.5	1.2	1.8
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	12	1.0 U	8.8	15
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B"U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0	1.0	1.0	1.0 U	0.79 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	19	1.0 U	14	17
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		3.40	0.00	3.96	0.00	0.00	0.31	3.61	5.41	7.80	4.60	1.90	8.80	13.3	9.40	140	25.5	98.1	150
Total VOCs (w/o Acteone or Methylene Chloride)		0.00	0.00	0.86	0.00	0.00	0.31	0.51	0.61	0.00	0.00	1.90	8.80	6.60	9.40	140	21.1	98.1	150

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-11 11/28/2016 Deep ug/L	4009-11 4/10/2017 Deep ug/L	4009-11 6/20/2017 Deep ug/L	4009-11 10/23/2017 Deep ug/L	4009-11 12/28/2017 Deep ug/L	4009-11 3/30/2018 Deep ug/L	4009-11 6/14/2018 Deep ug/L	4009-11 9/27/2018 Deep ug/L	4009-11 12/19/2018 Deep ug/L	4009-11A 2/20/2014 Shallow ug/L	4009-11A 5/28/2014 Shallow ug/L	4009-11A 8/28/2014 Shallow ug/L	4009-11A 12/9/2014 Shallow ug/L	4009-11A 4/20/2015 Shallow ug/L	4009-11A 7/29/2015 Shallow ug/L	4009-11A 11/4/2015 Shallow ug/L	4009-11A 3/28/2016 Shallow ug/L	4009-11A 6/30/2016 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	170	65	1.0 U	88	68	1.0 U	170	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	2.9	1.4	1.0 U	1.0 U	1.2	1.0 U	1.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	2.1	2.8	43	18	2.1	24	21	7.0	49	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	27	5.0	1.0 U	7.2	6.4	1.0 U	17	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	0.21 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U*	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	3.7 J	3.6 J	5.0 U	4.5 J	10 U	5.0 U	10 U	10 U	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U	10 U	4.6 J	3.5 J
Benzene	1	16	15	1.0 U	1.0 U	6.5	1.0 U	1.0 U	8.9	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.8	0.9 J	1.0 U	1.3	1.2	1.0 U	1.7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	35	15	1.0 U	23	20	1.3	48	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	0.82 J	0.85 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.52 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.1	0.5 J	1.0 U	1.6	1.1	1.0 U	4.7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	2.0 U	1.1	37	13	1.0 U	17	19	1.7	38	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		18.9	23.5	322	119	13.1	162	138	19.4	330	9.80	4.10	10.0	0.00	7.60	0.00	0.00	4.60	3.50
Total VOCs (w/o Acteone or Methylene Chloride)		18.9	19.8	318	119	8.60	162	138	19.4	330	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 [REDACTED] - Concentration exceeds NYSDEC Class GA Standard
 U- Compound analyzed for but not detected
 J - Compound detected below the reporting limit or reported concentration is estimated
 µg/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
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 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
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 DUP-1 a duplicate sample from monitoring well 4009-12
 DUP-2 is a duplicate sample from monitoring well 4009-29I
 ** - Revised results due to mislabeling 27 and 29 clusters in field.
 ^ - PDB was compromised when sample was collected
 NS - Not Sampled
 NA- Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-12 6/30/2016 Deep ug/L	4009-12 9/29/2016 Deep ug/L	4009-12 11/28/2016 Deep ug/L	4009-12 4/10/2017 Deep ug/L	4009-12 6/20/2017 Deep ug/L	4009-12 10/23/2017 Deep ug/L	4009-12 12/28/2017 Deep ug/L	4009-12 3/30/2018 Deep ug/L	4009-12 6/14/2018 Deep ug/L	4009-12 9/27/2018 Deep ug/L	4009-12 12/19/2018 Deep ug/L	DUP-1 12/19/2018 Deep ug/L	4009-13 2/20/2014 Deep ug/L	4009-13 5/28/2014 Deep ug/L	4009-13 8/28/2014 Deep ug/L	4009-13 12/9/2014 Deep ug/L	4009-13 4/20/2015 Deep ug/L	4009-13 7/29/2015 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	100	45	1.0 U	330	45	1.0 U	95	80	88	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.9 J	1.0 J	1.0 U	5.4	1.0 U	1.0 U	1.0 U	0.76 J	0.83 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	2.9	2.4	2.9	18	9.2	5.6	46	13	6.2	11	12	13	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	3.2	7.7	0.53 J	16	5.0	0.54 J	6.9	3.9	4.2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U*	20 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	5.5 J	20 U	3.3 J	10 U	10 U	5.0 U	4.4 J	5.2 J	5.8 J	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U
Benzene	1	7.5	8.7	9.1	3.6	2.8	2.5	0.51 J	2.5	1.7	0.73 J	1.0 U	1.0 U	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.7
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.1	2.0 U	1.0 U	4.9	0.88 J	1.0 U	0.68 J	0.32 J	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.1	1.0	0.95 J	11	8.7	2.0	62	15	2.0	25	14	15	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.7	2.7 J	0.55 J	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	0.81 J	0.55 J	0.60 J	3.0	10	1.9	69	14	1.6	25	13	13	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.4	1.1	1.6	5.7	22	1.3	96	38	2.6	26	34	38	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		13.7	13.8	15.2	153	107	17.4	630	133	14.6	195	163	178	8.40	7.92	7.50	1.55	9.90	1.70
Total VOCs (w/o Acteone or Methylene Chloride)		13.7	13.8	15.2	148	106	14.1	630	133	14.6	190	158	172	0.00	4.12	7.50	1.55	1.00	1.70

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-13 11/4/2015 Deep ug/L	4009-13 3/28/2016 Deep ug/L	4009-13 6/30/2016 Deep ug/L	4009-13 9/29/2016 Deep ug/L	4009-13 11/28/2016 Deep ug/L	4009-13 4/26/2017 Deep ug/L	4009-13 6/20/2017 Deep ug/L	4009-13 10/23/2017 Deep ug/L	4009-13 12/28/2017 Deep ug/L	4009-13 3/30/2018 Deep ug/L	4009-13 6/14/2018 Deep ug/L	4009-13 9/27/2018 Deep ug/L	4009-13 12/19/2018 Deep ug/L	4009-13A 2/20/2014 Shallow ug/L	4009-13A 5/28/2014 Shallow ug/L	4009-13A 8/28/2014 Shallow ug/L	4009-13A 12/9/2014 Shallow ug/L	4009-13A 4/20/2015 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 UJ	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U
Acetone	50*	10 U	10 U	3.5 J	10 U	10 U	10 U	4.2 J	3.4 J	10 U	10 U	5.0 U	3.0 J	5.2 J	8.4 J	10 U	11 J	10 U	6.8 J
Benzene	1	3.2	3.2	2.4	1.9	1.9	0.41 J	1.0 U	0.2 J	1.0 U	1.0 U	1.0 U	0.44 J	0.76 J	1.0 U	0.58 J	1.0 UJ	0.96 J	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U
Total VOCs		3.20	3.20	5.90	1.90	1.90	0.41	4.20	3.60	0.00	0.00	0.00	3.44	5.96	8.40	0.58	11.0	0.96	6.80
Total VOCs (w/o Acteone or Methylene Chloride)		3.20	3.20	2.40	1.90	1.90	0.41	0.00	0.20	0.00	0.00	0.00	0.44	0.76	0.00	0.58	0.00	0.96	0.00

Notes:
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or
reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-13A 7/29/2015 Shallow ug/L	4009-13A 11/4/2015 Shallow ug/L	4009-13A 3/28/2016 Shallow ug/L	4009-13A 6/30/2016 Shallow ug/L	4009-13A 9/29/2016 Shallow ug/L	4009-13A 11/28/2016 Shallow ug/L	4009-13A 4/26/2017 Shallow ug/L	4009-13A 6/20/2017 Shallow ug/L	4009-13A 10/23/2017 Shallow ug/L	4009-13A 12/28/2017 Shallow ug/L	4009-13A 3/30/2018 Shallow ug/L	4009-13A 6/14/2018 Shallow ug/L	4009-13A 9/27/2018 Shallow ug/L	4009-13A 12/19/2018 Shallow ug/L	4009-14 2/20/2014 Deep ug/L	4009-14 5/28/2014 Deep ug/L	4009-14 8/28/2014 Deep ug/L	4009-14 12/9/2014 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetone	50*	10 U	10 U	10 U	10 U	10 U	10 U	3.0 J	4.1 J	2.6 J	10 U	10 U	10 U	5.0 U	3.6 J	4.2 J	6.3 J	4.3 J	11
Benzene	1	1.0 U	0.44 J	1.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.90 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.54 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U*
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.91 J	1.0	0.92 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.00	0.44	1.20	0.00	0.00	0.00	3.00	4.10	2.60	0.00	0.00	0.90	3.60	4.20	6.30	5.21	12.0	1.46
Total VOCs (w/o Acteone or Methylene Chloride)		0.00	0.44	1.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.90	0.00	0.00	0.00	0.91	1.00	1.46

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-14 4/20/2015 Deep ug/L	4009-14 7/29/2015 Deep ug/L	4009-14 11/4/2015 Deep ug/L	4009-14 3/28/2016 Deep ug/L	4009-14 6/30/2016 Deep ug/L	4009-14 9/29/2016 Deep ug/L	4009-14 11/28/2016 Deep ug/L	4009-14^ 4/10/2017 Deep ug/L	4009-14 6/20/2017 Deep ug/L	4009-14 10/23/2017 Deep ug/L	4009-14 12/28/2017 Deep ug/L	4009-14 3/30/2018 Deep ug/L	4009-14 6/14/2018 Deep ug/L	4009-14 9/27/2018 Deep ug/L	4009-14 12/19/2018 Deep ug/L	4009-15 2/20/2014 Deep ug/L	4009-15 5/28/2014 Deep ug/L	4009-15 8/28/2014 Deep ug/L	4009-15 12/9/2014 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 J	0.53 J	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10.0 U	5.0 U	10 U	10 U	10 U	5.0 U	10 U	10 U	1.3 J	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U
Acetone	50*	7.1 J	10 U	3.1 J	10 U	4.1 J	10 U	10 U	NS	3.4 J	3.3 J	10 U	10 U	5.0 U	3.8 J	4.8 J	7.5 J	5.1 J	7.2 J	10 U
Benzene	1	1.2	4.0	12	18	14	15	17	NS	9.2	11	12	13	11	1.6	1.5	1.0 U	1.0 U	0.5 J	0.86 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NS	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
Toluene	5	1.0	1.2	1.2	0.78 J	1.0 U	0.55 J	1.0 U	NS	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.56 J	0.61 J	0.72 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		9.30	5.20	16.3	18.8	18.1	15.6	17.0	-	12.6	14.6	12.0	13.0	11.0	5.40	6.30	8.02	7.49	8.31	1.58
Total VOCs (w/o Acteone or Methylene Chloride)		2.20	5.20	13.2	18.8	14.0	15.6	17.0	-	9.2	11.3	12.0	13.0	11.0	1.60	1.50	0.52	2.39	1.11	1.58

Notes:
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 - Concentration exceeds NYSDEC Class GA Standard
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Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-15 4/20/2015 Deep ug/L	4009-15 7/29/2015 Deep ug/L	4009-15 11/4/2015 Deep ug/L	4009-15 3/28/2016 Deep ug/L	4009-15 6/30/2016 Deep ug/L	4009-15 9/29/2016 Deep ug/L	4009-15 11/28/2016 Deep ug/L	4009-15 4/10/2017 Deep ug/L	4009-15 6/20/2017 Deep ug/L	4009-15 10/23/2017 Deep ug/L	4009-15 12/28/2017 Deep ug/L	4009-15 3/30/2018 Deep ug/L	4009-15 6/14/2018 Deep ug/L	4009-15 9/27/2018 Deep ug/L	4009-15 12/19/2018 Deep ug/L	4009-16 2/20/2014 Deep ug/L	4009-16 5/28/2014 Deep ug/L	4009-16 8/28/2014 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	5.8 J	10 U	4.9 J	5.1 J	9.1 J	4.3 J	8.4 J	4.5 J	9.5 J	9.7	5.1 J	4.4 J	5.0 U	7.3 J	5.6 J	5.9 J	3.5 J	7.1 J
Benzene	1	1.8	9.1	8.0	9.1	8.5	7.8	9.0	0.97 J	12	10	9.1	9.3	9.0	7.3	8.7	1.0 U	1.0 U	8.2
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	0.77 J	1.0	0.84 J	0.57 J	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	0.34 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		8.37	10.1	13.7	14.8	17.6	12.7	17.4	7.55	21.5	20.0	14.2	13.7	9.00	14.6	14.3	5.90	3.50	16.8
Total VOCs (w/o Acteone or Methylene Chloride)		2.57	10.1	8.84	9.67	8.50	8.41	9.00	3.05	12.0	10.3	9.10	9.30	9.00	7.30	8.70	0.00	0.00	9.70

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Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-16 12/9/2014 Deep ug/L	4009-16 4/20/2015 Deep ug/L	4009-16 7/29/2015 Deep ug/L	4009-16 11/4/2015 Deep ug/L	4009-16 3/28/2016 Deep ug/L	4009-16 6/30/2016 Deep ug/L	4009-16 9/29/2016 Deep ug/L	4009-16 11/28/2016 Deep ug/L	4009-16^ 4/10/2017 Deep ug/L	4009-16^ 6/20/2017 Deep ug/L	4009-16 10/23/2017 Deep ug/L	4009-16 12/28/2017 Deep ug/L	4009-16 3/30/2018*** Deep ug/L	4009-16 6/14/2018 Deep ug/L	4009-16 9/27/2018 Deep ug/L	4009-16 12/19/2018 Deep ug/L	4009-16A 2/20/2014 Shallow ug/L	4009-16A 5/28/2014 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10.0 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	1.6 J	10 U
2-Hexanone	50*	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	6.0 J	10 U	10 U	10 U	4.5 J	10 U	10 U	NS	4.2 J	3.3 J	10 U	10 U	5.0 U	3.1 J	10 U	12	4.0 J
Benzene	1	0.39 J	1.0 U	1.0 U	1.0 U	1.0 U	8.4	8.0	1.8	NS	18.0	1.5	5.8	1.1	5.7	1.5	7.3	1.0 U	1.9
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	NS	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B"U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NS	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	NS	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.39	6.00	0.00	0.00	0.00	12.9	8.69	1.80	-	22.2	4.80	5.80	1.10	5.70	4.60	7.30	13.6	5.90
Total VOCs (w/o Acteone or Methylene Chloride)		0.39	0.00	0.00	0.00	0.00	8.40	8.69	1.80	-	18.0	1.50	5.80	1.10	5.70	1.50	7.30	1.60	1.90

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-16A 8/28/2014 Shallow ug/L	4009-16A 12/9/2014 Shallow ug/L	4009-16A 4/20/2015 Shallow ug/L	4009-16A 7/29/2015 Shallow ug/L	4009-16A 11/4/2015 Shallow ug/L	4009-16A 3/28/2016 Shallow ug/L	4009-16A 6/30/2016 Shallow ug/L	4009-16A 9/29/2016 Shallow ug/L	4009-16A 11/28/2016 Shallow ug/L	4009-16A 4/10/2017 Shallow ug/L	4009-16A 6/20/2017 Shallow ug/L	4009-16A 10/23/2017 Shallow ug/L	4009-16A 12/28/2017 Shallow ug/L	4009-16A 3/30/2018 Shallow ug/L	4009-16A 6/14/2018 Shallow ug/L	4009-16A 9/27/2018 Shallow ug/L	4009-16A 12/19/2018 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.31 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U
2-Hexanone	50*	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U
Acetone	50*	7.6 J	10 U	6.4 J	10 U	10 U	10 U	10 U	10 U	10 U	5.0 J	3.8 J	5.0 U	10 U	10 U	5.0 U	3.3 J	10 U
Benzene	1	7.2	8.0	5.7	11	3.0	4.2	0.49 J	1.4	36	1.8	1.0 U	0.23 J	1.0 U	1.0 U	0.56 J	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.44 J
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		14.8	8.00	12.1	11.0	3.00	4.20	0.49	1.40	36.0	6.80	3.80	0.54	0.00	0.00	0.56	3.30	0.44
Total VOCs (w/o Acteone or Methylene Chloride)			7.20	8.00	5.70	11.0	3.00	4.20	0.49	1.40	36.0	1.80	0.00	0.54	0.00	0.56	0.00	0.44

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-18 5/6/2015 Deep ug/L	4009-18 7/29/2015 Deep ug/L	4009-18 11/4/2015 Deep ug/L	4009-18 3/28/2016 Deep ug/L	4009-18 6/30/2016 Deep ug/L	4009-18 9/29/2016 Deep ug/L	4009-18 11/28/2016 Deep ug/L	4009-18 4/10/2017 Deep ug/L	4009-18 6/20/2017 Deep ug/L	4009-18 10/23/2017 Deep ug/L	4009-18 12/28/2017 Deep ug/L	4009-18 3/30/2018 Deep ug/L	4009-18 6/14/2018 Deep ug/L	4009-18 9/27/2018 Deep ug/L	4009-18 12/19/2018 Deep ug/L	4009-19 4/20/2015 Deep ug/L	4009-19 7/29/2015 Deep ug/L	4009-19 11/4/2015 Deep ug/L
1,1,1-Trichloroethane	5	0.86 J	1.0	1.0 U	1.0 U	0.83 J	1.0 U	1.0 U	0.83 J	1.0 U	0.69 J	1.0 U	0.88 J	0.57 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	3.3 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10	10 U	10 U	10 U	10 U	10 U	10 U	6.4 J	4.1 J	2.9 J	10 U	10 U	5.0 U	5.0 U	10 U	8.5 J	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	0.41 J	1.0 U	0.47 J	1.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	1.0 U	2.7	1.0	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	1.0 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	0.58 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		14.2	1.00	0.00	0.99	0.83	0.47	1.70	7.23	4.10	3.59	0.00	0.88	0.57	0.00	0.00	11.2	1.00	0.00
Total VOCs (w/o Acteone or Methylene Chloride)		4.16	1.00	0.00	0.41	0.83	0.47	1.70	0.83	0.00	0.69	0.00	0.88	0.57	0.00	0.00	2.70	1.00	0.00

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
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D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-19 3/28/2016 Deep ug/L	4009-19 6/30/2016 Deep ug/L	4009-19 9/29/2016 Deep ug/L	4009-19 11/28/2016 Deep ug/L	4009-19 4/10/2017 Deep ug/L	4009-19 6/20/2017 Deep ug/L	4009-19 10/23/2017 Deep ug/L	4009-19 12/28/2017 Deep ug/L	4009-19 3/30/2018 Deep ug/L	4009-19 6/14/2018 Deep ug/L	4009-19 9/27/2018 Deep ug/L	4009-19 12/19/2018 Deep ug/L	4009-21 4/20/2015 Deep ug/L	4009-21 7/29/2015 Deep ug/L	4009-21 11/4/2015 Deep ug/L	4009-21 3/28/2016 Deep ug/L	4009-21 6/30/2016 Deep ug/L	4009-21 9/29/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	4.2 J	3.4 J	5.0 U	10 U	10 U	5.0 U	10 U	10 U	7.9 J	10 U	10 U	10 U	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	0.50 J	1.0 U	1.0 U	11	31	21	21
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.26 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.64 J	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		0.00	0.00	0.00	0.00	4.20	3.40	0.00	0.00	0.00	0.26	1.50	0.50	7.90	0.00	11.0	31.6	21.0	21.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	1.50	0.50	0.00	0.00	11.0	31.0	21.0	21.0

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-21 11/28/2016 Deep ug/L	4009-21^ 4/10/2017 Deep ug/L	4009-21^ 6/20/2017 Deep ug/L	4009-21 10/23/2017 Deep ug/L	4009-21 12/28/2017 Deep ug/L	4009-21 3/30/2018 Deep ug/L	4009-21 6/14/2018 Deep ug/L	4009-21 9/27/2018 Deep ug/L	4009-21 12/19/2018 Deep ug/L	4009-22 12/3/2013 Deep ug/L	4009-22 2/20/2014 Deep ug/L	4009-22 5/28/2014 Deep ug/L	4009-22 8/28/2014 Deep ug/L	4009-22 12/9/2014 Deep ug/L	4009-22 4/20/2015 Deep ug/L	4009-22 7/29/2015 Deep ug/L	4009-22 11/4/2015 Deep ug/L	4009-22 3/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	7.1 J	4.5 J	3.0 J	10 U	10 U	5.0 U	10 U	10 U	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U
Benzene	1	19	24	25	18	18	17	11	5.3	11	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.6
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	1.0 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	0.44 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.46 J
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.7 J	0.6 J	1.1	0.83 J	0.64 J	0.93 J	1.1	0.81 J	0.92 J
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		19.0	31.1	29.9	21.0	18.0	17.0	11.0	5.30	11.0	4.44	13.2	2.02	12.8	1.46	8.63	2.20	2.01	2.98
Total VOCs (w/o Acteone or Methylene Chloride)		19.0	24.0	25.0	18.0	18.0	17.0	11.0	5.30	11.0	1.34	1.24	2.02	1.81	1.46	2.13	2.20	2.01	2.52

Notes:
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or
reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-22 6/30/2016 Deep ug/L	4009-22 9/29/2016 Deep ug/L	4009-22 11/28/2016 Deep ug/L	4009-22 4/10/2017 Deep ug/L	4009-22 6/20/2017 Deep ug/L	4009-22 10/23/2017 Deep ug/L	4009-22 12/28/2017 Deep ug/L	4009-22 3/30/2018 Deep ug/L	4009-22 6/14/2018 Deep ug/L	4009-22 9/27/2018 Deep ug/L	4009-22 12/19/2018 Deep ug/L	4009-26 2/20/2014 Intermediate ug/L	4009-26 5/28/2014 Intermediate ug/L	4009-26 8/28/2014 Intermediate ug/L	4009-26 12/9/2014 Intermediate ug/L	4009-26 4/10/2017 Intermediate ug/L	4009-26 6/20/2017 Intermediate ug/L	4009-26 10/23/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	98	370	150 DJ	92	100	350	140
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	7.7	13	6.0 DJ	7.7	5.3	5.7	6.6
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	27	39	16 DJ	14	30	43	12
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.0	46	9.9 DJ	7.8	3.8	34	4.5
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UD	8.0 U	2.0 UDJ	10 U	2.0 U	2 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2 U	2.0 U	2 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	2.0 U	2 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U*	10 U	2.3 J	10 U	10 U	5.0 U	10 U	10 U	10 U	80 U	20 UDJ	20 U	20 U*	20 U	5.0 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	0.90 J	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	40 U	10 UDJ	20 U	10 U	10 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	40 U	10 UDJ	20 U	10 U	10 U	5.0 U
Acetone	50*	4.0 J	10 U	10 U	6.5 J	4.2 J	3.5 J	10 U	10 U	5.0 U	3.4 J	10 U	10	80 U	20 UDJ	20 U	7.4 J	20 U	1.3 J
Benzene	1	1.3	1.3	1.1	1.1	1.1	1.1	1.0	1.2	0.96 J	1.2	0.96 J	0.81 J	8.0 U	2.0 UDJ	0.55 J	2.0 U	0.87 J	0.27 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U*	2.0 U	2 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	3.6	3.1	0.65 J
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	0.29 J
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	120 D	190	96 DJ	85	81	130	59
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.9	5.8 J	5.0 DJ	2.8	2.0 U	2 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	20 U	5.0 UDJ	20 U	5.0 U	5 U	5.0 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.8	0.69 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.4	2.0 UDJ	2.0 U	2.0 U	1.8 J	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.1	8.0 U	0.97 DJ	0.89 J	0.84 J	1.1 J	0.84 J
Toluene	5	1.0 U	0.90 J	1.3	1.0	0.88 J	0.85 J	1.0	0.72 J	0.55 J	0.65 J	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	0.41 J
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	45	71	47 DJ	49	45	63	57
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	2 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	21	13 DJ	9.4	5.2	11	5.1
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	16.0 U	4.0 UDJ	4.0 U	4.0 U	4 U	2.0 U
Total VOCs		5.30	2.20	2.40	10.4	6.87	8.65	2.0	1.92	1.51	5.25	0.96	332	764	344	269	282	644	283
Total VOCs (w/o Acteone or Methylene Chloride)		1.30	2.20	2.40	2.10	1.98	5.15	2.0	1.92	1.51	1.85	0.96	322	756	344	269	275	642	282

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-26 12/28/2017 Intermediate ug/L	4009-26 3/30/2018 Intermediate ug/L	4009-26 6/14/2018 Intermediate ug/L	4009-26 9/27/2018 Intermediate ug/L	4009-26 12/19/2018 Intermediate ug/L	4009-27S 2/20/2014 Intermediate ug/L	4009-27S 5/28/2014 Intermediate ug/L	4009-27S 8/28/2014 Intermediate ug/L	4009-27S 12/9/2014 Intermediate ug/L	4009-27S 4/20/2015 Intermediate ug/L	4009-27S 7/29/2015 Intermediate ug/L	4009-27S 11/4/2015 Intermediate ug/L	4009-27S 3/28/2016 Intermediate ug/L	4009-27S 6/30/2016 Intermediate ug/L	4009-27S 9/29/2016 Intermediate ug/L	4009-27S 11/28/2016 Intermediate ug/L	4009-27S** 4/10/2017 Intermediate ug/L	4009-27S** 6/20/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	82	290	280	350	530	54	61	65 J	49	61	62	61	58	54	54	61	54	46
1,1,2,2-Tetrachloroethane	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		3.4	8.8	8.4	11	12	2.8	3.4	2.3 J	2.6	3.3	3.3	3.5	2.9	2.7	2.4	2.6	3.0	2.4
1,1,2-Trichloroethane	1	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,1-Dichloroethane	5	14	35	32	42	45	1.9	2.2	2.2 J	1.9 J	2.6	2.7	2.4	2.4	2.1	2.0	2.5	2.4	2.1
1,1-Dichloroethene	5	2.9	8.5	8.7	17	16	5.7	8.9	5.6 J	4.6	6.2	10	7.0	4.5	5.0	4.9	8.8	5.1	9.1
1,2,3-Trimethylbenzene		2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	10 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2,4-Trichlorobenzene	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2,4-Trimethylbenzne	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromo-3-Chloropropane	0.04	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	4.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichlorobenzene	3	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloroethane	0.6	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	0.9 J	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,2-Dichloropropane	1	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,3-Dichlorobenzene	3	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
1,4-Dichlorobenzene	3	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
2-Butanone (MEK)	50	20 U	20 U*	5.0 U	50 U	50 U	10 U	10 U	10 UJ	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U*	20 U
2-Hexanone	50*	10 U	10 U	5.0 U*	25 U	25 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
4-Methyl-2-pentanone (MIBK)		10 U	10 U	5.0 U*	25 U	25 U	5.0 U	5.0 U	5.0 UJ	20 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	10 U
Acetone	50*	20 U	20 U	5.0 U	50 U	50 U	9.9 J	3.8 J	8.1 UJ	20 U	8.1 J	10 U	10 U	10 U	10 U	10 U	10 U	20 U	20 U
Benzene	1	2.0 U	2.0 U	0.53 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromodichloromethane	50	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromoform	50*	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Bromomethane	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon disulfide		2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Carbon tetrachloride	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chlorobenzene	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloroethane	5	2.0 U	0.91 J	2.3	2.0 J	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloroform	7	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Chloromethane		2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
cis-1,2-Dichloroethene	5	54	120	110	170	190	18	20	19 J	19	21	24	21	22	20	20	23	20	17
cis-1,3-Dichloropropene	0.4	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Cyclohexane		2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Dibromochloromethane	50	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Dichlorodifluoromethane	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Ethylbenzene	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Isopropylbenzne (Cumene)	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methyl Acetate		2.0 U	5.0 U	5.0 U	13 U	13 U	2.5 U	2.5 U	2.5 UJ	20 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	5.0 U
Methyl Cyclohexane		2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Methylene Chloride	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	2.0 U	1.2 J
Methyl Tert B'U*yl Ether	10	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Styrene	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Tetrachloroethene	5	2.0 U	1.3 J *	1.2	5.0 U	1.8 J	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Toluene	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
trans-1,2-Dichloroethene	5	2.0 U	2.0 U	0.74 J	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
trans-1,3-Dichloropropene	0.4	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Trichloroethene	5	49	88	65	140	120	25	28	24 J	22	25	28	25	24	23	22	24	22	24
Trichlorofluoromethane	5	2.0 U	2.0 U	1.0 U	5.0 U	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	2.0 U
Vinyl chloride	2	4.6	9.9	8.1	13	13	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.2	1.0 U	1.0 U	2.0 U	2.0 U
Xylenes, Total		4.0 U	4.0 U	2.0 U	10 U	10 U	2.0 U	2.0 U	2.0 UJ	4.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U	4.0 U
Total VOCs		210	562	517	745	928	117	128	126	99.1	127	130	120	114	108	105	119	107	102
Total VOCs (w/o Acteone or Methylene Chloride)		210	562	517	745	928	107	124	118	99.1	119	130	120	114	108	105	119	107	101

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
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Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27S 10/23/2017 Intermediate ug/L	4009-27S 12/28/2017 Intermediate ug/L	4009-27S 3/30/2018 Intermediate ug/L	4009-27S 6/14/2018 Intermediate ug/L	4009-27S 9/27/2018 Intermediate ug/L	4009-27S 12/19/2018 Intermediate ug/L	4009-27I 2/20/2014 Intermediate ug/L	4009-27I 5/28/2014 Intermediate ug/L	4009-27I 8/28/2014 Intermediate ug/L	4009-27I 12/9/2014 Intermediate ug/L	4009-27I 4/20/2015 Intermediate ug/L	4009-27I 7/29/2015 Intermediate ug/L	4009-27I 11/4/2015 Intermediate ug/L	4009-27I 3/28/2016 Intermediate ug/L	4009-27I 6/30/2016 Intermediate ug/L	4009-27I 9/29/2016 Intermediate ug/L	4009-27I 11/28/2016 Intermediate ug/L	4009-27I** 4/10/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	53	53	52	43	47	43	1.0 U	1.0 U	1.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		3.5	3.1	2.4	2.6	1.5 J	2.3	1.0 U	0.37 J	1.0 UJ	1.0 U	1.0 U	0.31 J	1.0 U	0.39 J	0.40 J	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	2.3	2.3	2.2	1.9	2.2	1.9	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	4.8	4.8	4.4	4.1	4.5	4.2	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	5.0 U	20 U	20 U	5.0 U	20 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*
2-Hexanone	50*	5.0 U	10 U	10 U	5.0 U*	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	10 U	10 U	5.0 U*	10 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.5 J	20 U	20 U	5.0 U	20 U	6.3 J	5.8 J	10 U	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U	10 U	10 U	5.3 J
Benzene	1	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	0.71 J	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	0.95 J	4.6	1.5	1.0 U
Bromodichloromethane	50	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U*	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.86 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	0.27 J	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	20	22	21	18	21	18	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	0.77 J	0.87 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.19 J	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	22	27	26	20	25	21	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J	1.0 U	1.0 U	0.74 J
Trichlorofluoromethane	5	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	2.0 U	2.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	4.0 U	4.0 U	2.0 U	4.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	1.0 U	2.0 U
Total VOCs		110	112	108	89.6	101	96.7	7.20	1.47	11.1	1.97	10.2	2.21	0.61	1.79	3.49	4.60	1.50	6.04
Total VOCs (w/o Acteone or Methylene Chloride)		106	112	108	89.6	101	90.4	1.40	1.47	3.21	1.97	0.87	2.21	0.61	1.79	3.49	4.60	1.50	0.74

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27I 6/20/2017 Intermediate ug/L	4009-27I 10/23/2017 Intermediate ug/L	4009-27I 12/28/2017 Intermediate ug/L	4009-27I 3/30/2018 Intermediate ug/L	4009-27I 6/14/2018 Intermediate ug/L	4009-27I 9/27/2018 Intermediate ug/L	4009-27I 12/19/2018 Intermediate ug/L	4009-27D 2/20/2014 Deep ug/L	4009-27D 5/28/2014 Deep ug/L	4009-27D 8/28/2014 Deep ug/L	4009-27D 12/9/2014 Deep ug/L	4009-27D 4/20/2015 Deep ug/L	4009-27D 7/29/2015 Deep ug/L	4009-27D 11/4/2015 Deep ug/L	4009-27D 3/28/2016 Deep ug/L	4009-27D 6/30/2016 Deep ug/L	4009-27D 9/29/2016 Deep ug/L	4009-27D 11/28/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0	1.0 U	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		0.4 J	0.68 J	1.0 U	1.0 U	0.42 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.3 J	5.0 U	10 U	10 U	5.0 U	4.6 J	10 U	9.8 J	4.8 J	8.0 J	10 U	7.1 J	10.0 U	10.0 U	10.0 U	10 U	10 U	10 U
Benzene	1	1.0 U	0.12 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.41 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	0.60 J	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.7	0.98 J	0.73 J	1.6	1.4	1.7	2.2	1.0 U	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		5.40	3.19	0.73	1.60	2.43	6.30	2.20	9.80	4.80	8.48	0.00	7.10	0.00	0.00	0.60	0.00	0.00	0.00
Total VOCs (w/o Acteone or Methylene Chloride)		2.10	3.19	0.73	1.60	2.43	1.70	2.20	0.00	0.00	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^- PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-27D** 4/10/2017 Deep ug/L	4009-27D 6/20/2017 Deep ug/L	4009-27D 10/23/2017 Deep ug/L	4009-27D 12/28/2017 Deep ug/L	4009-27D 3/30/2018 Deep ug/L	4009-27D 6/14/2018 Deep ug/L	4009-27D 9/27/2018 Deep ug/L	4009-27D 12/19/2018 Deep ug/L	4009-28 2/20/2014 Deep ug/L	4009-28 5/28/2014 Deep ug/L	4009-28 8/28/2014 Deep ug/L	4009-28 12/9/2014 Deep ug/L	4009-28 4/20/2015 Deep ug/L	4009-28 7/29/2015 Deep ug/L	4009-28 11/4/2015 Deep ug/L	4009-28 3/28/2016 Deep ug/L	4009-28 6/30/2016 Deep ug/L	4009-28 9/29/2016 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	2.7	1.0 U	3.0	2.9	2.9	2.3	1.9	2.5	2.5
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.3 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U*	10 U	5.0 U	10 U	10 U	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	3.9 J	3.5 J	5.0 U	10 U	10 U	5.0 U	3.6 J	5.0 J	7.9 J	3.7 J	6.8 J	10 U	6.1 J	10 U	10.0 U	10.0 U	10 U	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.22 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.25 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	10 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		3.90	3.50	0.00	0.00	0.00	0.00	3.60	5.00	9.20	6.71	6.80	3.53	9.22	2.90	0.00	2.90	2.50	2.50
Total VOCs (w/o Acteone or Methylene Chloride)		0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.30	3.01	0.00	3.53	3.12	2.90	0.00	2.90	2.50	2.50

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^_ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-28 11/28/2016 Deep ug/L	4009-28 4/10/2017 Deep ug/L	4009-28 6/20/2017 Deep ug/L	4009-28 10/23/2017 Deep ug/L	4009-28 12/28/2017 Deep ug/L	4009-28 3/30/2018 Deep ug/L	4009-28 6/14/2018 Deep ug/L	4009-28 9/27/2018 Deep ug/L	4009-28 12/19/2018 Deep ug/L	4009-29S 2/20/2014 Intermediate ug/L	4009-29S 5/28/2014 Intermediate ug/L	4009-29S 8/28/2014 Intermediate ug/L	4009-29S 12/9/2014 Intermediate ug/L	4009-29S 4/20/2015 Intermediate ug/L	4009-29S 7/29/2015 Intermediate ug/L	4009-29S 11/4/2015 Intermediate ug/L	4009-29S 3/28/2016 Intermediate ug/L	4009-29S 6/30/2016 Intermediate ug/L	
1,1,1-Trichloroethane	5	2.5	1.0 U	1.0 U	1.0 U	2.5	1.0 U	2.9	2.5	3.2	2.5	710 D	650	1000 DJ	480	830	850	760	800 D	460
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U	7.1	20 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	130 D	35	46 D	29	38	55	49	58	69
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	92	89	62 D	33	37	130	84	45	33
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	83 U	20 U	20 U	20 U	20 U	20 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	33 U	20 U	20 U	20 U	20 U	20 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
2-Butanone (MEK)	50	10 U	10 U*	10 U	5.0 U	10 U	10 U	10 U	5.0 U	10 U	10 U	10 U	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U
Acetone	50*	10 U	9.3 J	4.4 J	1.7 J	10 U	10 U	10 U	5.0 U	3.6 J	10 U	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U
Benzene	1	1.0 U	2.9	1.6	1.0 U	1.0 U	1.0 U	0.61 J	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Carbon disulfide		1.0 U	1.0 U	0.2 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	20 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	20 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	0.35 J	1.0 U	1.0 U	0.41 J	1.0 U	1.0 U	260 D	340	410 D	270	320	480	310	390 D	190	190
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.3	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	20 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	25 U	25 UD	170 U	20 U	20 U	50 U	50 U	50 U	50 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	5.6 J*	20 U	20 U	20 U	0.58 J	20 U	20 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.42 J	20 U	20 U
Toluene	5	1.0 U	1.8	2.2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	20 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	300 D	10 U	27 D	3.5 J	20 U	20 U	20 U	9.2	20 U	20 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	43	15	42 D	16 J	24	65	82	120 D	78	78
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	20 U	20 U	20 UD	33 U	40 U	40 U	40 U	40 U	40 U
Total VOCs		2.50	14.0	8.40	4.55	0.00	2.90	3.52	6.80	2.50	1560	1129	1594	837	1258	1587	1285	1434	830	830
Total VOCs (w/o Acteone or Methylene Chloride)		2.50	4.70	4.00	2.85	0.00	2.90	3.52	3.20	2.50	1554	1129	1594	832	1258	1587	1285	1434	830	830

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29S 9/29/2016 Intermediate ug/L	4009-29S 11/28/2016 Intermediate ug/L	4009-29S** 4/10/2017 Intermediate ug/L	4009-29S 6/20/2017 Intermediate ug/L	4009-29S 10/23/2017 Intermediate ug/L	4009-29S 12/28/2017 Intermediate ug/L	4009-29S 3/30/2018 Intermediate ug/L	4009-29S 6/14/2018 Intermediate ug/L	4009-29S 9/27/2018 Intermediate ug/L	4009-29S 12/19/2018 Intermediate ug/L	4009-29I 2/20/2014 Intermediate ug/L	4009-29I 5/28/2014 Intermediate ug/L	4009-29I 8/28/2014 Intermediate ug/L	4009-29I 12/9/2014 Intermediate ug/L	4009-29I 4/20/2015 Intermediate ug/L	4009-29I 7/29/2015 Intermediate ug/L	4009-29I 11/4/2015 Intermediate ug/L	4009-29I 3/28/2016 Intermediate ug/L
1,1,1-Trichloroethane	5	430	23	480	440	390	490	650	420	960	1000	1700 D	1600	130 DJ	1100	1500	1700	1400	1400 D
1,1,2,2-Tetrachloroethane	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	2.0 U	5.0	5.5 J	3.9	9.0 J	5.8 J	4.3	5.0 J	10 U	21	25 U	2.0 UDJ	15 J	15 J	40 U	40 U	14
1,1,2-Trichloroethane	1	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	0.86 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.57 J
1,1-Dichloroethane	5	52	50	82	52	36	76	97	58	90	95	83	96	21 DJ	82	100	100	90	69
1,1-Dichloroethene	5	27	3.2	32	67	26	37	51	37	74	85	150 D	230	6.4 DJ	92	85	240	200	77
1,2,3-Trimethylbenzene		1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	200 U	40 U	40 U	40 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	80 U	40 U	40 U	40 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	0.41 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,2-Dichloropropane	1	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
2-Butanone (MEK)	50	10 U	20 U	10 U*	100 U	10 U	100 U	100 U	10 U	100 U	100 U	10 U	250 U	20 UDJ	400 U	400 U	400 U	400 U	10 U
2-Hexanone	50*	5.0 U	10 U	5.0 U	50 U	10 U	50 U	50 U	10 U*	50 U	50 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	10 U	5.0 U	50 U	10 U	50 U	50 U	10 U*	50 U	50 U	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U
Acetone	50*	10 U	8.0 J	4.9 J	100 U	10 U	100 U	100 U	10 U	100 U	100 U	11	250 U	12 DJ	400 U	400 U	400 U	400 U	10 U
Benzene	1	1.0 U	98	2.7	10 U	0.3 J	10 U	10 U	2.0 U	10 U	10 U	0.59 J	25 U	41 DJ	40 U	40 U	40 U	40 U	0.48 J
Bromodichloromethane	50	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Bromoform	50*	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Bromomethane	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Carbon disulfide		1.0 U	2.0 U	0.23 J	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Carbon tetrachloride	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Chlorobenzene	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.6	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3
Chloroethane	5	1.0 U	2.0 U	2.1	10 U	1.6 J	10 U	10 U	2.0	10 U	10 U	5.0	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	2.7
Chloroform	7	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.1	25 U	1.1 DJ	40 U	40 U	40 U	40 U	0.77 J
Chloromethane		1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
cis-1,2-Dichloroethene	5	200	59	180	210	170	250	350	260	470	430	400 D	400	53 DJ	330	380	530	410	420 D
cis-1,3-Dichloropropene	0.4	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Cyclohexane		1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Dibromochloromethane	50	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U*	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.2	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.9
Ethylbenzene	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Methyl Acetate		2.5 U	5.0 U	2.5 U	25 U	10 U	25 U	25 U	10 U	25 U	25 U	2.5 U	63 U	5.0 UDJ	400 U	100 U	100 U	100 U	2.5 U
Methyl Cyclohexane		1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Methylene Chloride	5	1.0 U	2.0 U	1.0 U	7.1 J	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	1.2 DJ	14 J*	18 J	40 U	40 U	0.60 J
Methyl Tert B'U*yl Ether	10	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Styrene	5	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Tetrachloroethene	5	1.0 U	2.0 U	0.36 J	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	2.1	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.8
Toluene	5	1.0 U	1.5	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	3.7 DJ	40 U	40 U	40 U	40 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	2.0 U	1.0 U	10 U	0.87 J	10 U	10 U	0.78 J	10 U	10 U	3.4	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3
trans-1,3-Dichloropropene	0.4	1.0 U	2.0 U	1.0 U	10 U	2.0 U	10 U	10 U	2.0 U	10 U	10 U	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U
Trichloroethene	5	1.0 U	2.0 U	17	27	94	110	48	19	150	220	450 D	460	34 DJ	360	410	550	480	450 D
Trichlorofluoromethane	5	1.0 U	2.0 U	1.0 U	10 U	0.37 J	10 U	10 U	2.0 U	10 U	10 U	0.94 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.92 J
Vinyl chloride	2	95	2.5	130	68	32	100	120	74	100	120	85	85	6.6 DJ	78	92	140	110	94
Xylenes, Total		2.0 U	4.0 U	2.0 U	20 U	4.0 U	20 U	20 U	4.0 U	20 U	20 U	2.0 U	50 U	4.0 UDJ	80 U	80 U	80 U	80 U	2.0 U
Total VOCs		804	245	936	877	755	1072	1322	875	1849	1950	2917	2871	310	2071	2600	3260	2690	2536
Total VOCs (w/o Acteone or Methylene Chloride)		804	237	931	870	755	1072	1322	875	1849	1950	2906	2871	297	2057	2582	3260	2690	2536

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29I 6/30/2016 Intermediate ug/L	4009-29I 9/29/2016 Intermediate ug/L	4009-29I 11/28/2016 Intermediate ug/L	4009-29I** 4/10/2017 Intermediate ug/L	4009-29I 6/20/2017 Intermediate ug/L	4009-29I 10/23/2017 Intermediate ug/L	4009-29I 12/28/2017 Intermediate ug/L	4009-29I 3/30/2018 Intermediate ug/L	4009-29I 6/14/2018 Intermediate ug/L	4009-29I 9/27/2018 Intermediate ug/L	4009-29I 12/19/2018 Intermediate ug/L	DUP-2 12/19/2018 Intermediate ug/L	4009-29D 2/20/2014 Deep ug/L	4009-29D 5/28/2014 Deep ug/L	4009-29D 8/28/2014 Deep ug/L	4009-29D 12/9/2014 Deep ug/L	4009-29D 4/20/2015 Deep ug/L	4009-29D 7/29/2015 Deep ug/L
1,1,1-Trichloroethane	5	1200	1.0 U	2.0 U	1000	1200	970	1100	1200	620	990	950	890	1.0 U	80	1200 DJ	170	290	30
1,1,2,2-Tetrachloroethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		15 J	1.0 U	2.0 U	12	14 J	11	16 J	20 U	7.5	20 U	20 U	8.1	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U
1,1,2-Trichloroethane	1	25 U	1.0 U	2.0 U	0.60 J	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	0.57 J	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U
1,1-Dichloroethane	5	71	4.4	3.9	89	82	72	92	93	50	84	72	62	1.1	16	150 DJ	27	51	12
1,1-Dichloroethene	5	93	1.9	2.0 U	80	190	62	71	95	50	82	79	65	1.0 U	12	130 DJ	27	29	5.7
1,2,3-Trimethylbenzene		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U
1,2,4-Trichlorobenzene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,2,4-Trimethylbenzne	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,2-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,2-Dichloroethane	0.6	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	0.24 J	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U
1,2-Dichloropropane	1	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,3-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
1,4-Dichlorobenzene	3	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
2-Butanone (MEK)	50	250 U	10 U	20 U	10 U*	200 U	25 U	200 U	200 U	10 U	200 U	200 U	10 U	10 U	10 U	10 U	57 U	50 U	10 U
2-Hexanone	50*	130 U	5.0 U	10 U	5.0 U	100 U	25 U	100 U	100 U	10 U*	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U
4-Methyl-2-pentanone (MIBK)		130 U	5.0 U	10 U	5.0 U	100 U	25 U	100 U	100 U	10 U*	100 U	100 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U
Acetone	50*	250 U	5.6 J	6.1 J	5.2 J	200 U	25 U	200 U	200 U	10 U	200 U	200 U	5.6 J	6.9 J	10 U	10 U	57 U	50 U	10 U
Benzene	1	25 U	75	120	0.71 J	20 U	0.57 J	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J
Bromodichloromethane	50	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Bromoform	50*	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Bromomethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Carbon disulfide		25 U	0.35 J	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Carbon tetrachloride	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Chlorobenzene	5	25 U	1.0 U	2.0 U	1.1	20 U	1.7 J	20 U	20 U	0.91 J	20 U	20 U	1.2	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Chloroethane	5	25 U	51	29	3.9	20 U	3.6 J	20 U	20 U	2.2	20 U	20 U	2.4	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U
Chloroform	7	25 U	1.0 U	2.0 U	0.67 J	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	0.49 J	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U
Chloromethane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
cis-1,2-Dichloroethene	5	340	45	41	330	360	330	390	400	250	380	350	320	1.4	25	400 DJ	150	210	37
cis-1,3-Dichloropropene	0.4	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Cyclohexane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Dibromochloromethane	50	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Dichlorodifluoromethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U
Ethylbenzene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Isopropylbenzne (Cumene)	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Methyl Acetate		63 U	2.5 U	5.0 U	2.5 U	50 U	25 U	50 U	50 U	10 U	50 U	50 U	2.5 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U
Methyl Cyclohexane		25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Methylene Chloride	5	25 U	1.0 U	2.0 U	1.0 U	15 J	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J*	5.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Styrene	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Tetrachloroethene	5	25 U	1.0 U	2.0 U	1.4	20 U	1.8 J	20 U	20 U	1.1 J	20 U	20 U	1.5	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Toluene	5	25 U	2.2	1.7 J	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
trans-1,2-Dichloroethene	5	25 U	1.0 U	2.0 U	1.2	20 U	1.8 J	20 U	20 U	0.95 J	20 U	20 U	1.1	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Trichloroethene	5	370	3.5	2.0	340	390	290	410	420	200	400	330	300	1.8	17	400 DJ	26	20	0.78 J
Trichlorofluoromethane	5	25 U	1.0 U	2.0 U	1.0 U	20 U	5.0 U	20 U	20 U	2.0 U*	20 U	20 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U
Vinyl chloride	2	85	2.0	2.0	130	110	96	120	92	63	79	68	60	4.7	12	170 DJ	34	55	7.8
Xylenes, Total		50 U	2.0 U	4.0 U	2.0 U	40 U	10 U	40 U	40 U	4.0 U	40 U	40 U	2.0 U	2.0 U	2.0 U	2.0 U	11 U	10 U	2.0 U
Total VOCs		2174	191	206	1995	2361	1840	2199	2300	1246	2015	1849	1718	15.9	165	2480	439	674	94.0
Total VOCs (w/o Acteone or Methylene Chloride)		2174	185	200	1990	2346	1840	2199	2300	1246	2015	1849	1713	9.00	165	2480	437	674	94.0

Notes:
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Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
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reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^_ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-29D 11/4/2015 Deep ug/L	4009-29D 3/28/2016 Deep ug/L	4009-29D 6/30/2016 Deep ug/L	4009-29D 9/29/2016 Deep ug/L	4009-29D 11/28/2016 Deep ug/L	4009-29D** 4/10/2017 Deep ug/L	4009-29D 6/20/2017 Deep ug/L	4009-29D 10/23/2017 Deep ug/L	4009-29D 12/28/2017 Deep ug/L	4009-29D 3/30/2018 Deep ug/L	4009-29D 6/14/2018 Deep ug/L	4009-29D 9/27/2018 Deep ug/L	4009-29D 12/19/2018 Deep ug/L	4009-30 4/20/2015 Deep ug/L	4009-30 7/29/2015 Deep ug/L	4009-30 11/4/2015 Deep ug/L	4009-30 3/28/2016 Deep ug/L	4009-30 6/30/2016 Deep ug/L
1,1,1-Trichloroethane	5	14	23	16	14	21	270	31	7.6	13	280	41	150	56	0.98 J	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	0.40 J	1.0 U	1.0 U	1.0 U	4.2	1.0 U	1.0 U	1.0 U	3.5	0.67 J	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	4.2	5.5	4.0	3.7	6.3	44	8.1	1.8	2.9	38	11	29	14	0.86 J	0.82 J	0.52 J	0.91 J	0.65 J
1,1-Dichloroethene	5	2.0	2.0	1.3	1.1	2.8	26	2.0	0.37 J	0.88 J	42	5.3	13	3.7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	2.3 J	10 U	10 U*	5.0 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	25 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	10 U	4.5 J	3.5 J	1.3 J	10 U	10 U	5.0 U	50 U	3.9 J	7.0 J	10 U	10 U	10 U	7.3 J
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.44 J	1.0 U	0.44 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.2	1.2	1.5	2.0	1.0 U	4.4	2.2	3.0	2.3	2.7	3.0	3.6 J	2.9	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	8.0	9.9	5.7	5.4	9.5	130	10	1.5	3.3	180	26	77	20	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzene (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	0.48 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	0.49 J	1.0 U	1.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.9 J	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	0.94 J	3.3	2.0	1.8	1.7	61	7.2	2.0	3.5	120	10	16	12	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	7.2	8.3	7.5	6.5	15	73	11	8.4	9.4	72	17	35	15	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		37.5	54.1	38.0	34.5	56.3	613	75.0	28.3	35.3	739	114	324	128	8.84	0.82	0.96	1.40	8.39
Total VOCs (w/o Acteone or Methylene Chloride)		37.5	53.6	38.0	34.5	56.3	613	71.5	27.0	35.3	739	114	324	124	1.84	0.82	0.96	0.91	1.09

Notes:
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or
reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-30 9/29/2016 Deep ug/L	4009-30 11/28/2016 Deep ug/L	4009-30^ 4/10/2017 Deep ug/L	4009-30^ 6/20/2017 Deep ug/L	4009-30 10/23/2017 Deep ug/L	4009-30 12/28/2017 Deep ug/L	4009-30 3/30/2018 Deep ug/L	4009-30 6/14/2018 Deep ug/L	4009-30 9/27/2018 Deep ug/L	4009-30 12/19/2018 Deep ug/L	4009-30A 4/20/2015 Shallow ug/L	4009-30A 7/29/2015 Shallow ug/L	4009-30A 11/4/2015 Shallow ug/L	4009-30A 3/28/2016 Shallow ug/L	4009-30A 6/30/2016 Shallow ug/L	4009-30A 9/29/2016 Shallow ug/L	4009-30A 11/28/2016 Shallow ug/L	4009-30A 4/10/2017 Shallow ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	0.52 J	0.93 J	1.3	0.8 J	0.77 J	0.66 J	0.71 J	0.61 J	1.0 U	1.1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.51 J	0.63 J	1.0 U
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U*	10 U	5.0 U	10.0 U	10.0 U*	5.0 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	4.9 J	10 U	7.2 J	5.3 J	5.0 U	10.0 U	10.0 U	5.0 U	3.5 J	10 U	6.9 J	10 U	10 U	10 U	10 U	10 U	10 U	5.6 J
Benzene	1	0.56 J	1.0	1.0 U	1.1	2.5	6.4	5.3	4.1	33	0.87 J	0.75 J	2.5	0.60 J	2.2	0.43 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert B*U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.28 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		5.98	1.93	8.50	7.19	3.55	7.06	6.01	4.71	36.5	1.97	7.65	2.50	0.60	2.20	0.43	0.51	0.63	5.60
Total VOCs (w/o Acteone or Methylene Chloride)		1.08	1.93	1.30	1.89	3.55	7.06	6.01	4.71	33.0	1.97	0.75	2.50	0.60	2.20	0.43	0.51	0.63	0.00

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-30A 6/20/2017 Shallow ug/L	4009-30A 10/23/2017 Shallow ug/L	4009-30A 12/28/2017 Shallow ug/L	4009-30A 3/30/2018 Shallow ug/L	4009-30A 6/14/2018 Shallow ug/L	4009-30A 9/27/2018 Shallow ug/L	4009-30A 12/19/2018 Shallow ug/L	Well 1-1 4/20/2015 Deep ug/L	Well 1-1 7/29/2015 Deep ug/L	Well 1-1 11/4/2015 Deep ug/L	Well 1-1 3/28/2016 Deep ug/L	Well 1-1 6/30/2016 Deep ug/L	Well 1-1 9/29/2016 Deep ug/L	Well 1-1 11/28/2016 Deep ug/L	Well 1-1^ 4/10/2017 Deep ug/L	Well 1-1 6/20/2017 Deep ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	220	240	350	250	210	310	220	NS	360
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.1	5.0 U	5.0 U	4.3 J	4.3 J	6.3	5.0 U	NS	7.1
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	15	18	28	22	14	22	18	NS	32
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	10	30	41	16	5.0 U	20	31	NS	57
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
2-Butanone (MEK)	50	10 U	5.0 U	10 U	10 U*	5.0 U	10 U	10 U	40 U	50 U	50 U	50 U	50 U	50 U	50 U	NS	50 U
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25 U	25 U	25 U	NS	25 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U*	5.0 U	5.0 U	20 U	25 U	25 U	25 U	25 U	25 U	25 U	NS	25 U
Acetone	50*	3.6 J	5.0 U	10 U	10 U	5.0 U	3.1 J	10 U	40 U	50 U	50 U	50 U	50 U	50 U	50 U	NS	50 U
Benzene	1	1.0 U	0.23 J	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Bromodichloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Chloromethane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	39	66	82	68	52	77	62	NS	96
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Methyl Acetate		2.5 U	5.0 U	2.5 U	2.5 U	5.0 U	2.5 U	2.5 U	10 U	13 U	13 U	13 U	13 U	13 U	13 U	NS	13 U
Methyl Cyclohexane		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Methylene Chloride	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.9 B	5.0 U	5.0 U	5.0 U	NS	5.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U*	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	41	64	81	59	56	69	66	NS	89
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS	5.0 U
Xylenes, Total		2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	8.0 U	10 U	10 U	10 U	10 U	10 U	10 U	NS	10 U
Total VOCs		3.60	0.23	0.00	0.00	0.00	3.10	0.00	329	418	582	425	336	504	397	-	641
Total VOCs (w/o Acteone or Methylene Chloride)		0.00	0.23	0.00	0.00	0.00	0.00	0.00	329	418	582	419	336	504	397	-	641

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ - PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report Fourth Quarter 2018
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	Well 1-1 10/23/2017 Deep ug/L	Well 1-1 12/28/2017 Deep ug/L	Well 1-1 3/30/2018 Deep ug/L	Well 1-1 6/14/2018 Deep ug/L	Well 1-1 9/27/2018 Deep ug/L	Well 1-1 12/19/2018 Deep ug/L
1,1,1-Trichloroethane	5	210	170	230	170	220	220
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		5.7	4.4	4.0 U	4.2	4.0 U	3.2 J
1,1,2-Trichloroethane	1	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,1-Dichloroethane	5	17	18	21	17	20	25
1,1-Dichloroethene	5	13	13	16	14	18	18
1,2,3-Trimethylbenzene		1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2-Dichlorobenzene	3	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2-Dichloroethane	0.6	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,2-Dichloropropane	1	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,3-Dichlorobenzene	3	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
1,4-Dichlorobenzene	3	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
2-Butanone (MEK)	50	5.0 U	10 U	40 U*	5.0 U	40 U	40 U
2-Hexanone	50*	5.0 U	5.0 U	20 U	5.0 U*	20 U	20 U
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	20 U	5.0 U*	20 U	20 U
Acetone	50*	5.0 U	10 U	40 U	5.0 U	40 U	40 U
Benzene	1	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Bromodichloromethane	50	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Bromoform	50*	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Bromomethane	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Carbon disulfide		1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Carbon tetrachloride	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Chlorobenzene	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Chloroethane	5	1.0 U	1.0 U	4.0 U	0.46 J	4.0 U	4.0 U
Chloroform	7	0.27 J	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Chloromethane		1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
cis-1,2-Dichloroethene	5	55	59	69	56	68	78
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Cyclohexane		1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Dibromochloromethane	50	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Ethylbenzene	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Methyl Acetate		5.0 U	2.5 U	10 U	5.0 U	10 U	10 U
Methyl Cyclohexane		1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Methylene Chloride	5	1.0 U	1.0 U	4.0 U	1.0 U	1.8 J	4.0 U
Methyl Tert B'U*yl Ether	10	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Styrene	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Tetrachloroethene	5	0.21 J	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Toluene	5	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
trans-1,2-Dichloroethene	5	0.28 J	1.0 U	4.0 U	0.35 J	4.0 U	4.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Trichloroethene	5	59	61	73	53	67	67
Trichlorofluoromethane	5	0.19 J	1.0 U	4.0 U	1.0 U	4.0 U	4.0 U
Vinyl chloride	2	0.17 J	1.0 U	4.0 U	0.29 J	4.0 U	4.0 U
Xylenes, Total		2.0 U	2.0 U	8.0 U	2.0 U	8.0 U	8.0 U
Total VOCs		361	325	409	315	395	411
Total VOCs (w/o Acteone or Methylene Chloride)		361	325	409	315	393	411

Notes:
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U- Compound analyzed for but not detected
J - Compound detected below the reporting limit or reported concentration is estimated
µg/L - Micrograms per Liter
B - Analyte detected in the method blank and sample
E - Estimated value
D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
Matrix Spike (MS) or MS Duplicate is outside acceptable limits
DUP-1 a duplicate sample from monitoring well 4009-12
DUP-2 is a duplicate sample from monitoring well 4009-29I
**-Revised results due to mislabeling 27 and 29 clusters in field.
^ PDB was compromised when sample was collected
NS - Not Sampled
NA- Not Analyzed
*** - 4009-16 was sampled via low flow on this date

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 7/22/2014	Well 1-2A Influent 7/30/2014	Well 1-2A Influent 8/18/2014	Well 1-2A Influent 8/28/2014	Well 1-2A Influent 9/29/2014	Well 1-2A Influent 9/30/2014	Well 1-2A Influent 10/21/2014	Well 1-2A Influent 10/28/2014	Well 1-2A Influent 11/11/2014	Well 1-2A Influent 11/24/2014	Well 1-2A Influent 12/9/2014	Well 1-2A Influent 12/18/2014	Well 1-2A Influent 1/20/2015	Well 1-2A Influent 1/29/2015	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 2/25/2015**	Well 1-2A Influent 3/12/2015**	Well 1-2A Influent 3/19/2015**
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	NS	NS	NS
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	NS	NS	NS
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA	5.0 U	NS	NS	NS	NS
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	NS	NS	NS
Acetone	50*	NA	10 U	NA	10 U	10 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	NS	NS	NS
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Carbon disulfide		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	NS	NS	NS
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	NS	NS	NS
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	NS	NS	NS
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	NS	NS	NS
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	NS	NS	NS
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	NS	NS	NS
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0				

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 4/9/2015	Well 1-2A Influent 4/20/2015	Well 1-2A Influent 5/6/2015	Well 1-2A Influent 5/12/2015	Well 1-2A Influent 6/9/2015	Well 1-2A Influent 6/25/2015	Well 1-2A Influent 7/29/2015	Well 1-2A Influent 8/11/2015	Well 1-2A Influent 8/28/2015	Well 1-2A Influent 9/15/2015	Well 1-2A Influent 9/24/2015	Well 1-2A Influent 10/12/2015	Well 1-2A Influent 11/4/2015	Well 1-2A Influent 11/10/2015	Well 1-2A Influent 12/21/2015	Well 1-2A Influent 1/19/2016	Well 1-2A Influent 1/27/2016	Well 1-2A Influent 2/16/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		0.5 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA
Acetone	50*	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA
Benzene	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U
Bromoform	50*	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U
Bromomethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U
Carbon disulfide		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	0.5 U	1.0 U	0.5 U
Carbon tetrachloride	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA
Methyl Acetate		NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA
Methyl Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	NA
Styrene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 2/26/2016	Well 1-2A Influent 3/22/2016	Well 1-2A Influent 3/28/2016	Well 1-2A Influent 4/20/2016	Well 1-2A Influent 4/22/2016	Well 1-2A Influent 5/20/2016	Well 1-2A Influent 5/23/2016	Well 1-2A Influent 6/21/2016	Well 1-2A Influent 6/22/2016	Well 1-2A Influent 7/20/2016	Well 1-2A Influent 7/28/2016	Well 1-2A Influent 8/16/2016	Well 1-2A Influent 8/18/2016	Well 1-2A Influent 9/6/2016	Well 1-2A Influent 9/15/2016	Well 1-2A Influent 10/18/2016	Well 1-2A Influent 10/31/2016	Well 1-2A Influent 11/8/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 11/28/2016	Well 1-2A Influent 12/16/2016	Well 1-2A Influent 12/29/2016	Well 1-2A Influent 1/13/2017	Well 1-2A Influent 1/31/2017	Well 1-2A Influent 2/7/2017	Well 1-2A Influent 2/27/2017	Well 1-2A Influent 3/7/2017	Well 1-2A Influent 3/23/2017	Well 1-2A Influent 4/4/2017	Well 1-2A Influent 4/26/2017	Well 1-2A Influent 5/19/2017	Well 1-2A Influent 5/24/2017	Well 1-2A Influent 6/20/2017	Well 1-2A Influent 6/21/2017	Well 1-2A Influent 7/19/2017	Well 1-2A Influent 7/31/2017	Well 1-2A Influent 8/18/2017
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U*	NA
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U*	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA
Acetone	50*	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 8/28/2017 ug/L	Well 1-2A Influent 9/15/2017 ug/L	Well 1-2A Influent 9/20/2017 ug/L	Well 1-2A Influent 10/3/2017 ug/L	Well 1-2A Influent 10/23/2017 ug/L	Well 1-2A Influent 11/10/2017 ug/L	Well 1-2A Influent 11/28/2017 ug/L	Well 1-2A Influent 12/27/2017 ug/L	Well 1-2A Influent 12/28/2017 ug/L	Well 1-2A ** Influent 1/15/2018 ug/L	Well 1-2A Influent 1/29/2018 ug/L	Well 1-2A Influent 2/20/2018 ug/L	Well 1-2A Influent 2/26/2018 ug/L	Well 1-2A Influent 3/12/2018 ug/L	Well 1-2A Influent 3/30/2018 ug/L	Well 1-2A Influent 4/6/2018 ug/L	Well 1-2A Influent 4/24/2018 ug/L	Well 1-2A Influent 5/7/2018 ug/L	Well 1-2A Influent 5/21/2018 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U*	NA
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	10 U	10 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NS	10 U	NA	10 U	NA	10 U	NA	50 U	50 U	NA
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U	10 U	NA
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NS	5.0 U	NA	5.0 U	NA	5.0 U	NA	10 U	10 U	NA
Acetone	50*	10 U	NA	10 U	NA	4.2 J	NA	10 U	NA	10 U	NS	10 U	NA	10 U	NA	10 U	NA	25 U	25 U	NA
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U*	NA
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Chloromethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	5.0 U	5 U*	NA
Dibromochloromethane	50	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NS	2.5 U	NA	2.5 U	NA	2.5 U	NA	10 U	10 U	NA
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NS	1.0 U	NA	1.0 U	NA	1.0 U	NA	5.0 U	5.0 U*	NA
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	5.0 U	5.0 U*	0.5 U
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U*	0.5 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	NS	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	3.0 U	3.0 U	0.5 U
Total VOCs		0	0	0	0	4.2	0	0	0	0	NS	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-2A Influent 6/14/2018 ug/L	Well 1-2A Influent 6/19/2018 ug/L	Well 1-2A Influent 7/6/2018 ug/L	Well 1-2A Influent 7/17/2018 ug/L	Well 1-2A Influent 8/8/2018 ug/L	Well 1-2A Influent 8/27/2018 ug/L	Well 1-2A Influent 9/13/2018 ug/L	Well 1-2A Influent 9/24/2018 ug/L	Well 1-2A Influent 10/22/2018 ug/L	Well 1-2A Influent 10/30/2018 ug/L	Well 1-2A Influent 11/12/2018 ug/L	Well 1-2A Influent 11/30/2018 ug/L	Well 1-2A Influent 12/17/2018 ug/L	Well 1-2A Influent 12/19/2018 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U*	NA	10 U*	NA	NA	10 U*	10 U	NA	NA	10 U
2-Hexanone	50*	5.0 U*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	NA	5.0 U	5.0 U	NA	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	3.1 J	NA	10 U	NA	NA	3.5 J	10 U	NA	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Chloromethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	NA	2.5 U	2.5 U	NA	NA	2.5 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.8 B*	1.0 U	0.5 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	3.1	0	0	0	0	5.3	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 7/22/2014	Well 1-3 Influent 7/30/2014	Well 1-3 Influent 8/18/2014	Well 1-3 Influent 8/28/2014	Well 1-3 Influent 9/29/2014	Well 1-3 Influent 9/30/2014	Well 1-3 Influent 10/21/2014	Well 1-3 Influent 10/28/2014	Well 1-3 Influent 11/11/2014	Well 1-3 Influent 11/24/2014	Well 1-3 Influent 12/9/2014	Well 1-3 Influent 12/18/2014	Well 1-3 Influent 1/20/2015	Well 1-3 Influent 1/29/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 2/25/2015	Well 1-3 Influent 3/12/2015	Well 1-3 Influent 3/19/2015
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	2.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U*	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	10.0 U	NA	5.0 U	NA	NA	5.0 U	10 U	NA	NA	5.0 U	NS	5.0 U	NA	5.0 U
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA	10 U	NS	10 U	NA	10 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromoform	50*	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Bromomethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Carbon disulfide		0.5 U	1.0 U	0.5 U	1 U	1.0 U	0.5 U	1.0 U	0.5 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	NA	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Chloromethane		0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Dibromochloromethane	50	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U*	NA	NA	1.0 U*	1.0 U	NA	NA	1.0 U	NS	1.0 U	0.5 U	1.0 U
Dichlorodifluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U*	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA	NA	NA	2.5 U	NA	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA	2.5 U	NS	2.5 U	NA	2.5 U
Methyl Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA	1.0 U	NS	1.0 U	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	NA	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	1 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	NA	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	NS	1.0 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	NS	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 4/9/2015	Well 1-3 Influent 4/20/2015	Well 1-3 Influent 5/6/2015	Well 1-3 Influent 5/12/2015	Well 1-3 Influent 6/9/2015	Well 1-3 Influent 6/25/2015	Well 1-3 Influent 7/29/2015	Well 1-3 Influent 8/11/2015	Well 1-3 Influent 8/28/2015	Well 1-3 Influent 9/15/2015	Well 1-3 Influent 9/24/2015	Well 1-3 Influent 10/12/2015	Well 1-3 Influent 11/4/2015	Well 1-3 Influent 11/10/2015	Well 1-3 Influent 12/21/2015	Well 1-3 Influent 1/19/2016	Well 1-3 Influent 1/27/2016	Well 1-3 Influent 2/16/2016
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,1,2-Trichloroethane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,1-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,3-Trimethylbenzene		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	5.0 U	NA	1.0 U	NA
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	2.0 U	NA	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
1,2-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,2-Dichloropropane	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
2-Butanone (MEK)	50	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA
2-Hexanone	50*	NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	5.0 U	NA	10.0 U	NA	5.0 U	NA
Acetone	50*	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U	NA	10 U	NA	10 U	NA
Benzene	1	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Bromodichloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromoform	50*	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Bromomethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon disulfide		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Carbon tetrachloride	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chlorobenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Chloroform	7	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Chloromethane		0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Dibromochloromethane	50	NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Ethylbenzene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Acetate		NA	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	2.5 U	NA	10 U	NA	2.5 U	NA
Methyl Cyclohexane		NA	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	NA	1.0 U	NA
Methylene Chloride	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Styrene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Tetrachloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Toluene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichloroethene	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Trichlorofluoromethane	5	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Vinyl chloride	2	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U
Xylenes, Total		0.5 U	2.0 U	2.0 U	1.5 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 2/26/2016 ug/L	Well 1-3 Influent 3/22/2016 ug/L	Well 1-3 Influent 3/28/2016 ug/L	Well 1-3 Influent 4/20/2016 ug/L	Well 1-3 Influent 4/22/2016 ug/L	Well 1-3 Influent 5/20/2016 ug/L	Well 1-3 Influent 5/23/2016 ug/L	Well 1-3 Influent 6/21/2016 ug/L	Well 1-3 Influent 6/22/2016 ug/L	Well 1-3 Influent 7/20/2016 ug/L	Well 1-3 Influent 7/28/2016 ug/L	Well 1-3 Influent 8/16/2016 ug/L	Well 1-3 Influent 8/18/2016 ug/L	Well 1-3 Influent 9/6/2016 ug/L	Well 1-3 Influent 9/15/2016 ug/L	Well 1-3 Influent 10/18/2016 ug/L	Well 1-3 Influent 10/31/2016 ug/L
1,1,1-Trichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	5.0 U	NA	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	10 U	NA	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	2.5 U	NA	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	1.0 U	NA	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 11/8/2016	Well 1-3 Influent 11/28/2016	Well 1-3 Influent 12/16/2016	Well 1-3 Influent 12/29/2016	Well 1-3 Influent 1/13/2017	Well 1-3 Influent 1/31/2017	Well 1-3 Influent 2/7/2017	Well 1-3 Influent 2/27/2017	Well 1-3 Influent 3/7/2017	Well 1-3 Influent 3/23/2017	Well 1-3 Influent 4/4/2017	Well 1-3 Influent 4/26/2017	Well 1-3 Influent 5/19/2017	Well 1-3 Influent 5/24/2017	Well 1-3 Influent 6/20/2017	Well 1-3 Influent 6/21/2017	Well 1-3 Influent 7/19/2017	Well 1-3 Influent 7/31/2017
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U*	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U*
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U*
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*	NA	1.0 U	NA	1.0 U
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	0.5 U	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U*	NA	1.0 U*	NA	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U*	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 8/18/2017	Well 1-3 Influent 8/28/2017	Well 1-3 Influent 9/15/2017	Well 1-3 Influent 9/20/2017	Well 1-3 Influent 10/3/2017	Well 1-3 Influent 10/23/2017	Well 1-3 Influent 11/10/2017	Well 1-3 Influent 11/28/2017	Well 1-3 Influent 12/27/2017	Well 1-3 Influent 12/28/2017	Well 1-3 Influent 1/15/2018	Well 1-3 Influent 1/29/2018	Well 1-3 Influent 2/20/2018	Well 1-3 Influent 2/26/2018	Well 1-3 Influent 3/12/2018	Well 1-3 Influent 3/30/2018
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
2-Butanone (MEK)	50	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U	NA	10 U
2-Hexanone	50*	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U	NA	5.0 U
Acetone	50*	NA	10 U	NA	10 U	NA	3.3 J	NA	1.9 J	NA	10 U	NA	3.4 J	NA	10 U	NA	10 U
Benzene	1	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromoform	50*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Bromomethane	5	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon disulfide		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Chloroform	7	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Chloromethane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	NA	1.0 U*	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Acetate		NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U	NA	2.5 U
Methyl Cyclohexane		NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Methylene Chloride	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Styrene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Toluene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
Xylenes, Total		0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U	0.5 U	2.0 U
Total VOCs		0	0	0	0	0	3.3	0	1.9	0	0	0	3.4	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A



Sample ID	NYSDEC GA Standard	Well 1-3 Influent 4/6/2018	Well 1-3 Influent 4/24/2018	Well 1-3 Influent 5/7/2018	Well 1-3 (post) Influent 5/7/2018	Well 1-3 Influent 5/21/2018	Well 1-3 Influent 6/14/2018	Well 1-3 (post) Influent 6/14/2018	Well 1-3 Influent 6/19/2018	Well 1-3 Influent 7/6/2018	Well 1-3 (post) Influent 7/6/2018	Well 1-3 Influent 7/17/2018	Well 1-3 Influent 8/8/2018	Well 1-3 (post) Influent 8/8/2018	Well 1-3 Influent 8/27/2018	Well 1-3 Influent 9/13/2018	Well 1-3 (post) Influent 9/13/2018
Sampling Date Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	0.29 J	0.26 J	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U*	1.0 U*	0.5 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	1.0 U	1.0 U*	1.0 U*	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,1,2-Trichloroethane	1	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	10 U	10 U	10 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,2-Dichloropropane	1	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
2-Butanone (MEK)	50	NA	50 U	50 U	50 U	NA	10 U	10 U	NA	10 U	10 U	NA	10 U*	10 U*	NA	10 U*	10 U*
2-Hexanone	50*	NA	10 U	10 U	10 U	NA	5.0 U*	5.0 U*	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	10 U	10 U	10 U	NA	5.0 U*	5.0 U*	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U	NA	5.0 U	5.0 U
Acetone	50*	NA	25 U	25 U	25 U	NA	10 U	10 U	NA	3.3 J	10 U	NA	10.0 U	10 U	NA	10.0 U	10 U
Benzene	1	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Bromodichloromethane	50	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Bromoform	50*	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Bromomethane	5	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Carbon disulfide		NA	1.0 U	1.0 UT	1.0 U*	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Carbon tetrachloride	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Chlorobenzene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Chloroethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Chloroform	7	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Chloromethane		NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Cyclohexane		NA	5.0 U	5.0 U*	5.0 U*	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Dibromochloromethane	50	NA	1.0 U	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Dichlorodifluoromethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Ethylbenzene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Methyl Acetate		NA	10 U	10 U	10 U	NA	2.5 U	2.5 U	NA	2.5 U	2.5 U	NA	2.5 U	2.5 U	NA	2.5 U	2.5 U
Methyl Cyclohexane		NA	5.0 U	5.0 U*	5.0 U*	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U	NA	1.0 U	1.0 U
Methylene Chloride	5	0.5 U	5.0 U	5.0 U*	5.0 U*	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Styrene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Tetrachloroethene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U*	1.0 U*	0.5 U	1.0 U	1.0 U
Toluene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Trichloroethene	5	0.5 U	1.0 U	1.0 U*	1.0 U*	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Trichlorofluoromethane	5	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Vinyl chloride	2	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U
Xylenes, Total		0.5 U	3.0 U	3.0 U	3.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	2.0 U	0.5 U	2.0 U	2.0 U
Total VOCs		0	0.29	0.26	0	0	0	0	0	3.3	0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

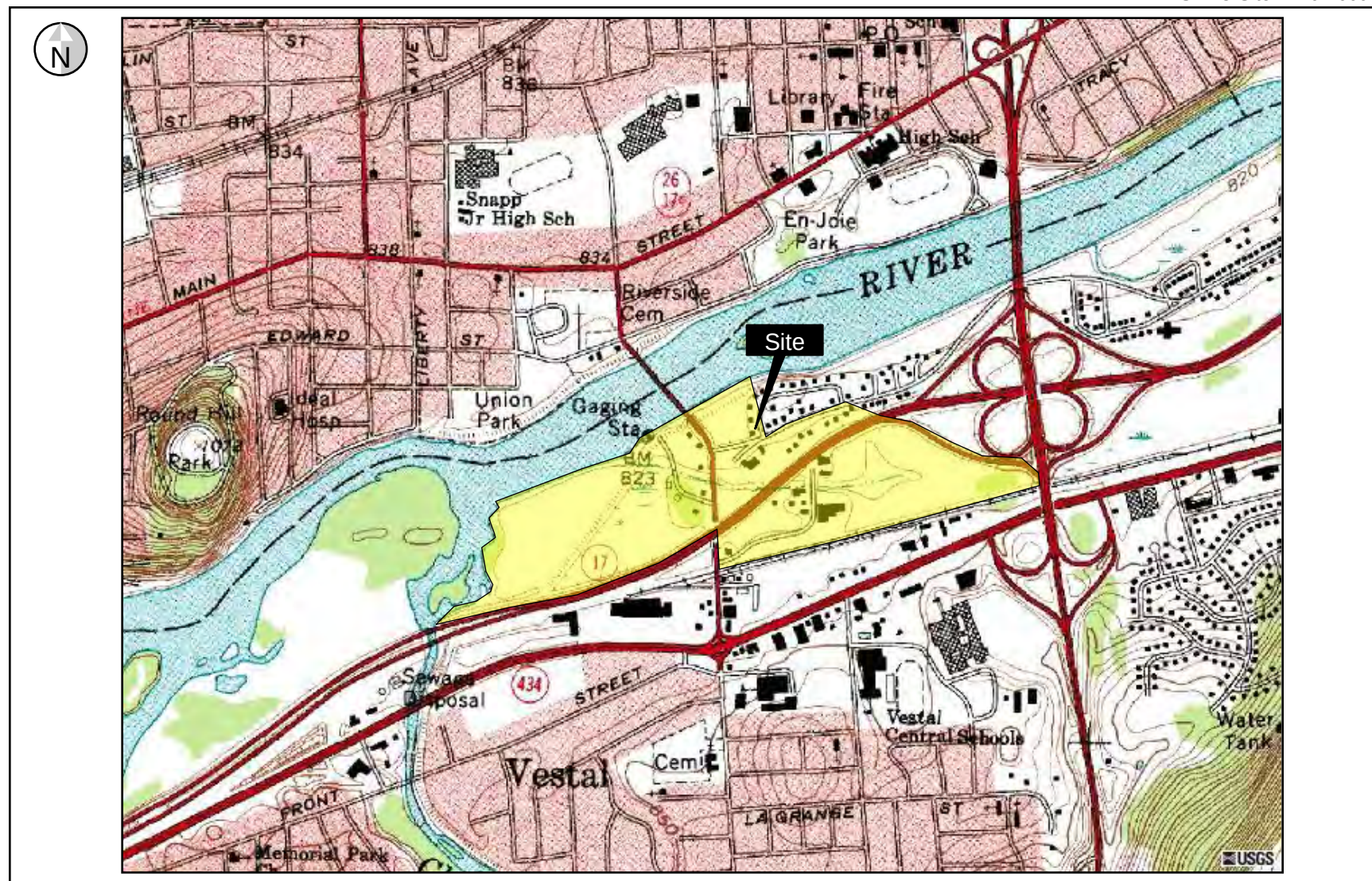


Sample ID	NYSDEC GA	Well 1-3	Well 1-3	Well 1-3	Well 1-3 (post)	Well 1-3	Well 1-3 (post)	Well 1-3	Well 1-3	Well 1-3	Well 1-3 (post)
Sampling Date	Standard	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent	Influent
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
1,1,2-Trichloroethane	1	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,1-Dichloroethene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
1,2-Dichlorobenzene	3	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,2-Dichloropropane	1	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
2-Butanone (MEK)	50	NA	NA	10 U*	10 U	10 U	10 U	NA	NA	10 U	10 U
2-Hexanone	50*	NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		NA	NA	5.0 U	5.0 U	5.0 U	5.0 U	NA	NA	5.0 U	5.0 U
Acetone	50*	NA	NA	10 U	3.5 J	10.0 U	10 U	NA	NA	10.0 U	10 U
Benzene	1	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Bromodichloromethane	50	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Bromoform	50*	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Bromomethane	5	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Carbon disulfide		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Carbon tetrachloride	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Chlorobenzene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Chloroethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Chloroform	7	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Chloromethane		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Cyclohexane		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Dibromochloromethane	50	NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Dichlorodifluoromethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Ethylbenzene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Methyl Acetate		NA	NA	2.5 U	2.5 U	2.5 U	2.5 U	NA	NA	2.5 U	2.5 U
Methyl Cyclohexane		NA	NA	1.0 U	1.0 U	1.0 U	1.0 U	NA	NA	1.0 U	1.0 U
Methylene Chloride	5	0.5 U	0.5 U	2.7 B	2.5 B	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Styrene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Tetrachloroethene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Toluene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Trichloroethene	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Trichlorofluoromethane	5	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Vinyl chloride	2	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U
Xylenes, Total		0.5 U	0.5 U	2.0 U	2.0 U	2.0 U	2.0 U	0.5 U	0.5 U	2.0 U	2.0 U
Total VOCs		0	0	2.7	6.0	0	0	0	0	0	0

Notes:
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
█ - Concentration exceeds NYSDEC Class GA Standard
µg/L - Micrograms per Liter
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
J -Compound detected below the reporting limit or reported
concentration is estimated
B- The analyte was found in an associated blank, as well as in the sample
* Laboratory control sample (LCS) or LCS Duplicate is outside
acceptable limits
** Well 1-2A was frozen and unable to be sampled

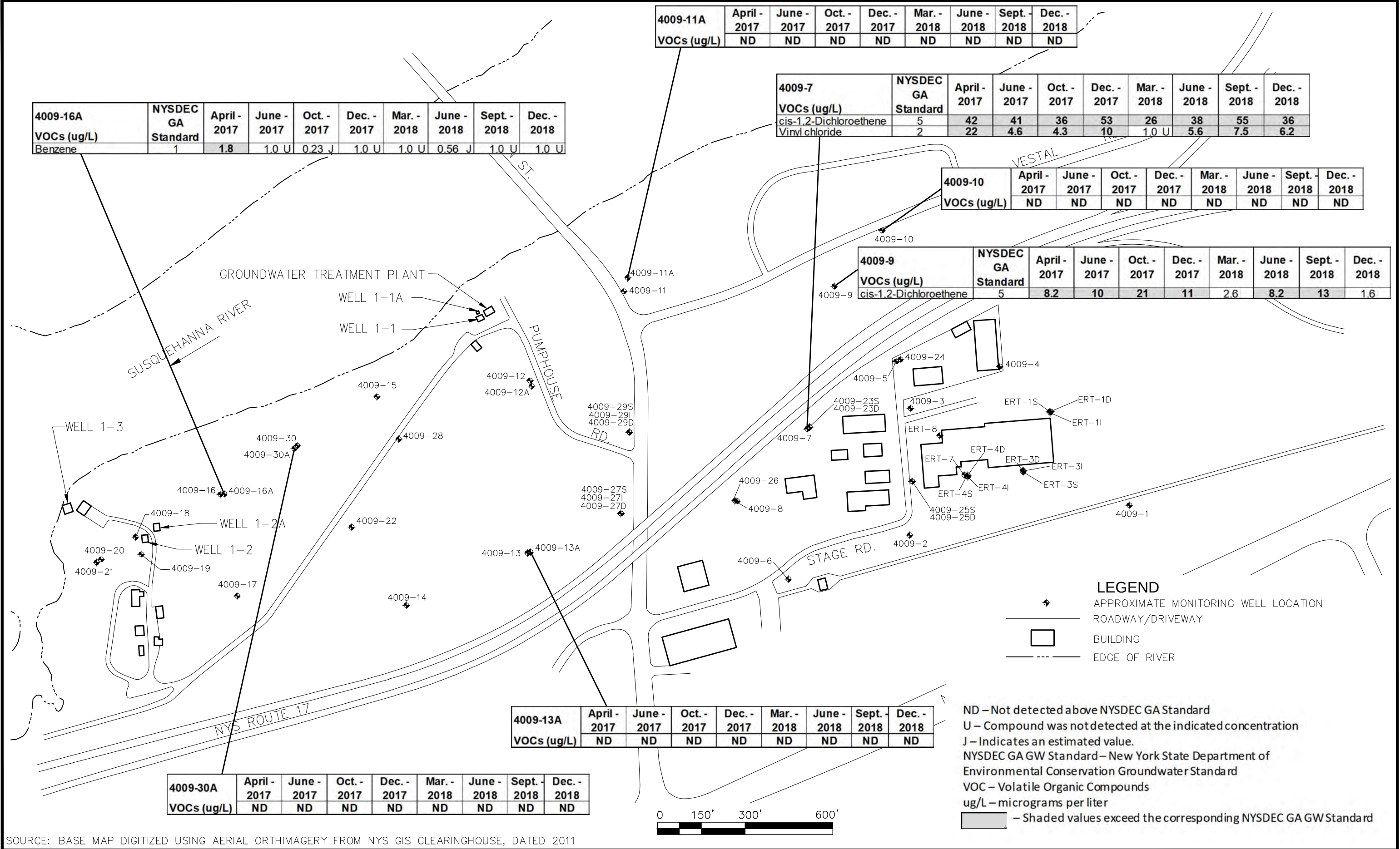
FIGURES





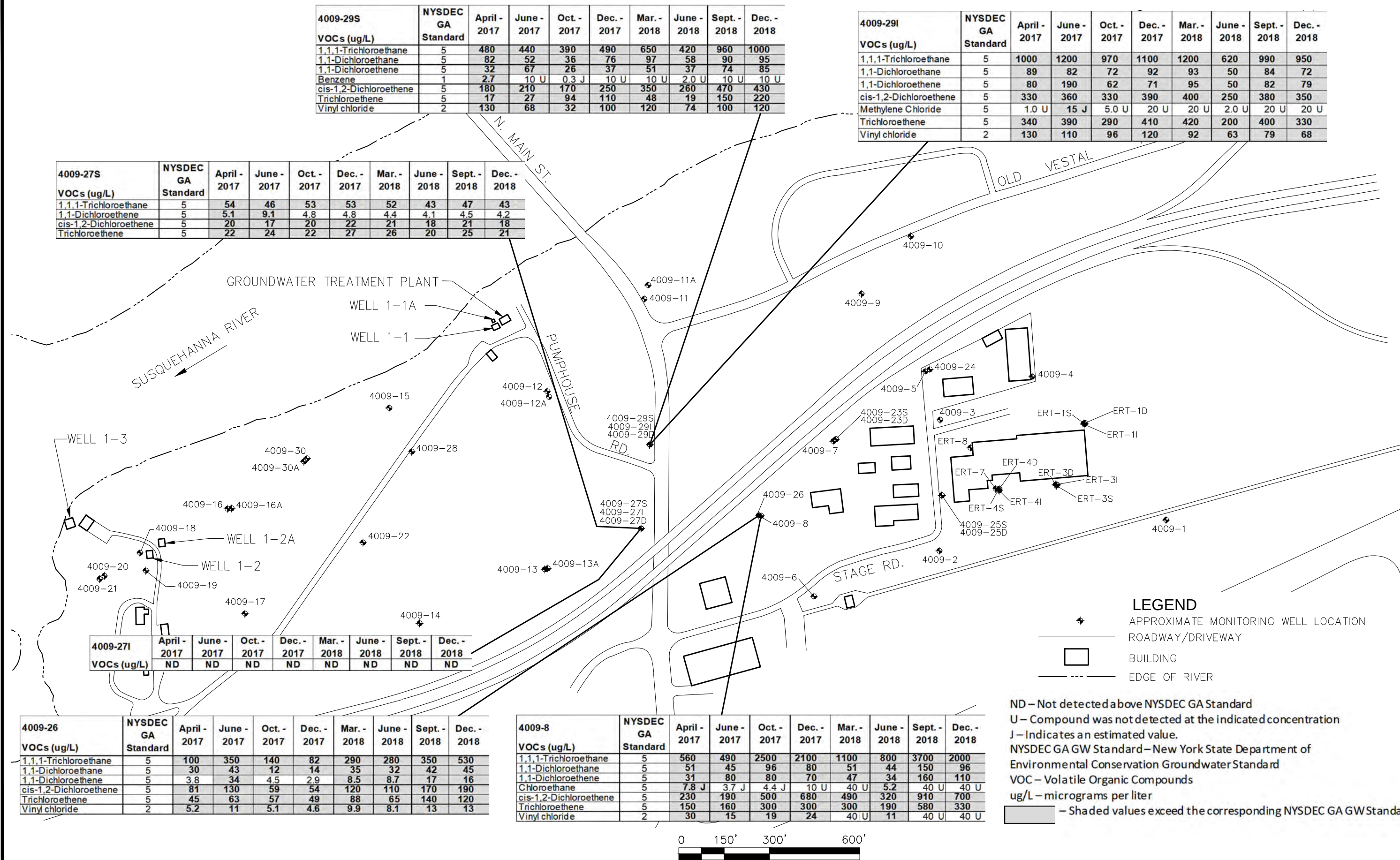
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USER: HAUSMANN FILENAME: G:\ACAD\PROJ\00266401.0000\FIGURES\FIGURE 2-2 VOC SHALLOW DEC 2018.DWG SAVE DATE: 1/30/2019 9:38 AM PLOT DATE: 1/30/2019 9:40 AM



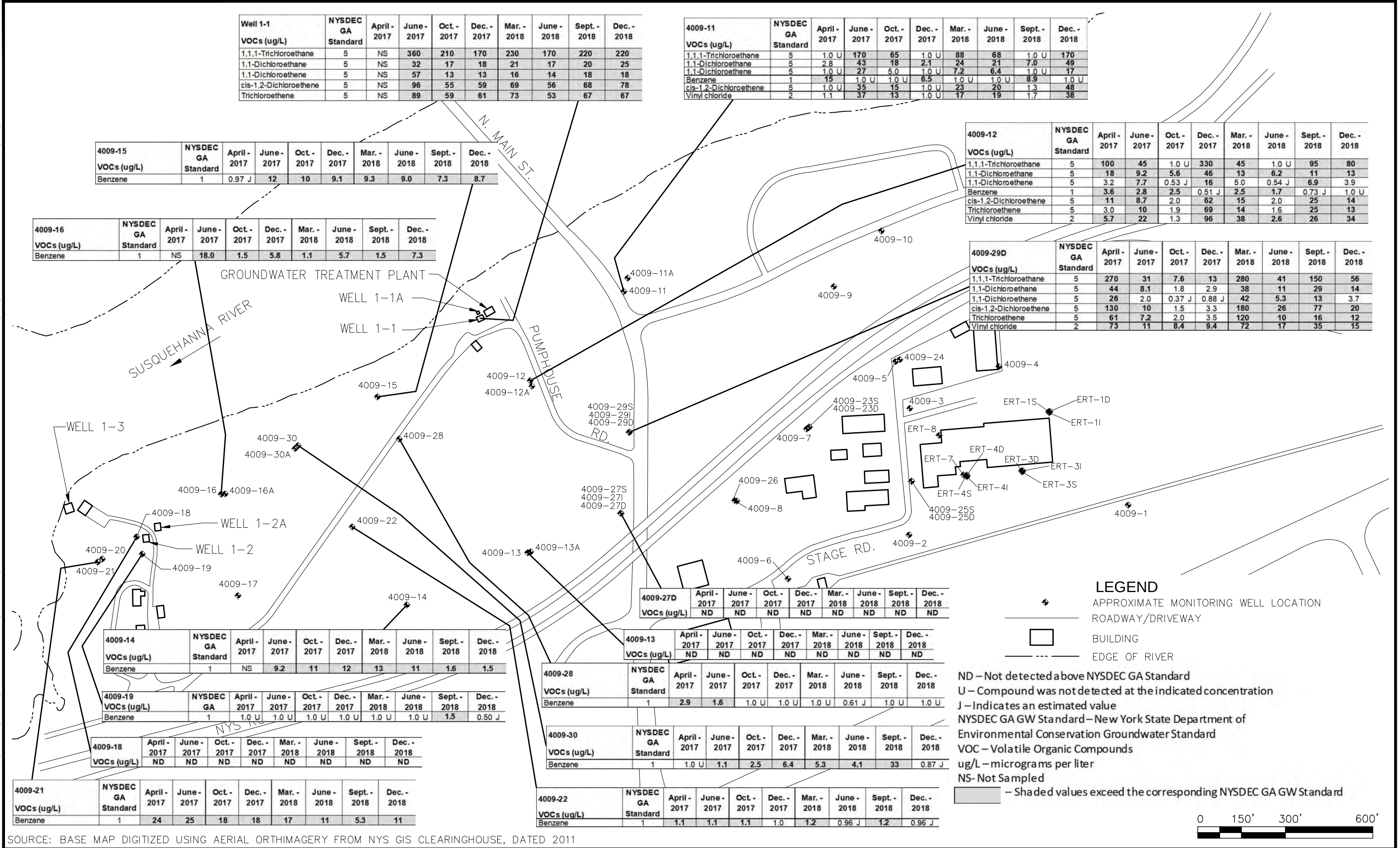
SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011

USER: HAUSMANN FILENAME: G:\ACAD\PROJ\00266401.0000\FIGURES\FIGURE 2-3 VOC INTERMEDIATE DEC 2018.DWG SAVE DATE: 1/30/2019 10:10 AM PLOT DATE: 1/30/2019 10:14 AM



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011

USER: HAUSMANN FILENAME: G:\ACAD\PROJ\00266401.0000\FIGURES\FIGURE 2-4 VOC DEEP DEC 2018.DWG SAVE DATE: 1/29/2019 12:59 PM PLOT DATE: 1/29/2019 1:02 PM



SOURCE: BASE MAP DIGITIZED USING AERIAL ORTHIMAGERY FROM NYS GIS CLEARINGHOUSE, DATED 2011

APPENDIX A

Analytical Reporting Forms (TestAmerica Laboratories, Inc. and
Microbac Laboratory Services)



ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-144402-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

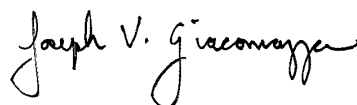
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff



Authorized for release by:

11/13/2018 3:56:46 PM

Joe Giacomazza, Project Management Assistant II

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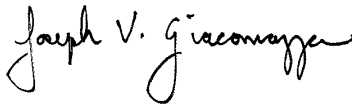
www.testamericainc.com

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

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

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

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.



Joe Giacomazza
Project Management Assistant II
11/13/2018 3:56:46 PM

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
*	LCS or LCSD is outside acceptance limits.
B	The analyte was found in an associated blank, as well as in the sample.

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Job ID: 480-144402-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-144402-1

Receipt

The samples were received on 10/31/2018 12:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.2° C.

GC/MS VOA

Method(s) 8260C: The method blank for batch 480-444134 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated samples were not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the samples was similar to the concentration in the method blank. The following samples are impacted: Well 1-3 (480-144402-2), Well 1-3 Post (480-144402-3) and Trip Blank (480-144402-4).

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 480-444263 was outside the method criteria, high bias, for the following analyte(s): Methylene Chloride. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte(s) is considered estimated. Methylene Chloride is a known lab contaminant, therefore, the sample detection for Methylene Chloride in the analysis may potentially be due to laboratory contamination and should be evaluated accordingly. Due to holding time limitations the samples were not reanalyzed. The following sample is impacted: Well 1-2A (480-144402-1)

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-444263 recovered outside control limits, high bias, for the following analytes: Methylene Chloride. Methylene Chloride is a known lab contaminant, therefore, the sample detection for Methylene Chloride in the analysis may potentially be due to laboratory contamination and should be evaluated accordingly. Due to holding time limitations the samples were not reanalyzed. The following sample is impacted: Well 1-2A (480-144402-1).

Method(s) 8260C: The method blank for analytical batch 480-444263 contained Methylene Chloride above the reporting limit (RL). This compound is considered a common laboratory contaminant. The associated sample(s) was not re-extracted and/or re-analyzed because the concentration of the common lab contaminant in the method blank was less than 5 times the RL. The following samples are impacted: Well 1-2A (480-144402-1).

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-144402-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.5	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	1.8	* B	1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: Well 1-3

Lab Sample ID: 480-144402-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.7	B	1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-144402-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.5	J	10	3.0	ug/L	1		8260C	Total/NA
Methylene Chloride	2.5	B	1.0	0.44	ug/L	1		8260C	Total/NA

Client Sample ID: Trip Blank

Lab Sample ID: 480-144402-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methylene Chloride	2.3	B	1.0	0.44	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-144402-1

Date Collected: 10/30/18 10:10

Matrix: Water

Date Received: 10/31/18 00:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 23:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 23:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 23:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 23:48	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 23:48	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 23:48	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 23:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 23:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 23:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 23:48	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 23:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 23:48	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 23:48	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 23:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 23:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 23:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 23:48	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 23:48	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 23:48	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 23:48	1
Acetone	3.5	J	10	3.0	ug/L			11/07/18 23:48	1
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 23:48	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 23:48	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 23:48	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 23:48	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 23:48	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 23:48	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 23:48	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 23:48	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 23:48	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 23:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 23:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 23:48	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 23:48	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 23:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 23:48	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 23:48	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 23:48	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 23:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 23:48	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 23:48	1
Methylene Chloride	1.8	* B	1.0	0.44	ug/L			11/07/18 23:48	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 23:48	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 23:48	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 23:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 23:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 23:48	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 23:48	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 23:48	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-2A

Date Collected: 10/30/18 10:10

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 23:48	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 23:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					11/07/18 23:48	1
4-Bromofluorobenzene (Surr)	98		73 - 120					11/07/18 23:48	1
Dibromofluoromethane (Surr)	99		75 - 123					11/07/18 23:48	1
Toluene-d8 (Surr)	99		80 - 120					11/07/18 23:48	1

Client Sample ID: Well 1-3

Date Collected: 10/30/18 10:05

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 18:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 18:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 18:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 18:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 18:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 18:31	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 18:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 18:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 18:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 18:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 18:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 18:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 18:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 18:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 18:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 18:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 18:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 18:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 18:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 18:31	1
Acetone	10	U	10	3.0	ug/L			11/07/18 18:31	1
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 18:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 18:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 18:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 18:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 18:31	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 18:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 18:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 18:31	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 18:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 18:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 18:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 18:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 18:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 18:31	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-3

Lab Sample ID: 480-144402-2

Date Collected: 10/30/18 10:05

Matrix: Water

Date Received: 10/31/18 00:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 18:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 18:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 18:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 18:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 18:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 18:31	1
Methylene Chloride	2.7	B	1.0	0.44	ug/L			11/07/18 18:31	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 18:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 18:31	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 18:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 18:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 18:31	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 18:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 18:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 18:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 18:31	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/07/18 18:31	1
4-Bromofluorobenzene (Surr)	98		73 - 120		11/07/18 18:31	1
Dibromofluoromethane (Surr)	98		75 - 123		11/07/18 18:31	1
Toluene-d8 (Surr)	100		80 - 120		11/07/18 18:31	1

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-144402-3

Date Collected: 10/30/18 10:00

Matrix: Water

Date Received: 10/31/18 00:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 18:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 18:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 18:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 18:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 18:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 18:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 18:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 18:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 18:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 18:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 18:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 18:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 18:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 18:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 18:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 18:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 18:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 18:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 18:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 18:55	1
Acetone	3.5	J	10	3.0	ug/L			11/07/18 18:55	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-144402-3

Date Collected: 10/30/18 10:00

Matrix: Water

Date Received: 10/31/18 00:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 18:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 18:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 18:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 18:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 18:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 18:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 18:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 18:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 18:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 18:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 18:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 18:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 18:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 18:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 18:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 18:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 18:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 18:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 18:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 18:55	1
Methylene Chloride	2.5	B	1.0	0.44	ug/L			11/07/18 18:55	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 18:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 18:55	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 18:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 18:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 18:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 18:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 18:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 18:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 18:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		11/07/18 18:55	1
4-Bromofluorobenzene (Surr)	101		73 - 120		11/07/18 18:55	1
Dibromofluoromethane (Surr)	102		75 - 123		11/07/18 18:55	1
Toluene-d8 (Surr)	101		80 - 120		11/07/18 18:55	1

Client Sample ID: Trip Blank

Lab Sample ID: 480-144402-4

Date Collected: 10/30/18 00:00

Matrix: Water

Date Received: 10/31/18 00:40

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 19:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 19:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 19:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 19:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 19:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 19:18	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 19:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-144402-4

Date Collected: 10/30/18 00:00

Matrix: Water

Date Received: 10/31/18 00:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 19:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 19:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 19:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 19:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 19:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 19:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 19:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 19:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 19:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 19:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 19:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 19:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 19:18	1
Acetone	10	U	10	3.0	ug/L			11/07/18 19:18	1
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 19:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 19:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 19:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 19:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 19:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 19:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 19:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 19:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 19:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 19:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 19:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 19:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 19:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 19:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 19:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 19:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 19:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 19:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 19:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 19:18	1
Methylene Chloride	2.3	B	1.0	0.44	ug/L			11/07/18 19:18	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 19:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 19:18	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 19:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 19:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 19:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 19:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 19:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 19:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 19:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		11/07/18 19:18	1
4-Bromofluorobenzene (Surr)	100		73 - 120		11/07/18 19:18	1
Dibromofluoromethane (Surr)	96		75 - 123		11/07/18 19:18	1
Toluene-d8 (Surr)	100		80 - 120		11/07/18 19:18	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-144402-1	Well 1-2A	96	98	99	99
480-144402-2	Well 1-3	103	98	98	100
480-144402-3	Well 1-3 Post	100	101	102	101
480-144402-4	Trip Blank	100	100	96	100
LCS 480-444134/5	Lab Control Sample	102	100	96	101
LCS 480-444263/5	Lab Control Sample	105	99	101	98
MB 480-444134/7	Method Blank	101	98	99	99
MB 480-444263/7	Method Blank	101	101	100	103

Surrogate Legend

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

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-444134/7

Matrix: Water

Analysis Batch: 444134

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 13:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 13:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 13:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 13:34	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 13:34	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 13:34	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 13:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 13:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 13:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 13:34	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 13:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 13:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 13:34	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 13:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 13:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 13:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 13:34	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 13:34	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 13:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 13:34	1
Acetone	10	U	10	3.0	ug/L			11/07/18 13:34	1
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 13:34	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 13:34	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 13:34	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 13:34	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 13:34	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 13:34	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 13:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 13:34	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 13:34	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 13:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 13:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 13:34	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 13:34	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 13:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 13:34	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 13:34	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 13:34	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 13:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 13:34	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 13:34	1
Methylene Chloride	2.13		1.0	0.44	ug/L			11/07/18 13:34	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 13:34	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 13:34	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 13:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 13:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 13:34	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 13:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

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

Lab Sample ID: MB 480-444134/7

Matrix: Water

Analysis Batch: 444134

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 13:34	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 13:34	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 13:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		11/07/18 13:34	1
4-Bromofluorobenzene (Surr)	98		73 - 120		11/07/18 13:34	1
Dibromofluoromethane (Surr)	99		75 - 123		11/07/18 13:34	1
Toluene-d8 (Surr)	99		80 - 120		11/07/18 13:34	1

Lab Sample ID: LCS 480-444134/5

Matrix: Water

Analysis Batch: 444134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	23.2		ug/L		93	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.8		ug/L		87	61 - 148
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	22.5		ug/L		90	77 - 120
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127
1,2,3-Trimethylbenzene	25.0	29.1		ug/L		116	78 - 120
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.5		ug/L		106	56 - 134
1,2-Dibromoethane	25.0	25.0		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	21.9		ug/L		87	75 - 120
1,2-Dichloropropane	25.0	23.3		ug/L		93	76 - 120
1,3,5-Trimethylbenzene	25.0	24.0		ug/L		96	77 - 121
1,3-Dichlorobenzene	25.0	23.7		ug/L		95	77 - 120
1,4-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 120
2-Butanone (MEK)	125	105		ug/L		84	57 - 140
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	126		ug/L		100	71 - 125
Acetone	125	118		ug/L		94	56 - 142
Benzene	25.0	23.0		ug/L		92	71 - 124
Bromodichloromethane	25.0	24.1		ug/L		96	80 - 122
Bromoform	25.0	26.4		ug/L		106	61 - 132
Bromomethane	25.0	21.4		ug/L		86	55 - 144
Carbon disulfide	25.0	22.4		ug/L		90	59 - 134
Carbon tetrachloride	25.0	22.9		ug/L		92	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	21.7		ug/L		87	69 - 136
Chloroform	25.0	21.8		ug/L		87	73 - 127
Chloromethane	25.0	22.3		ug/L		89	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		89	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

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

Lab Sample ID: LCS 480-444134/5

Matrix: Water

Analysis Batch: 444134

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	24.6		ug/L		98	74 - 124
Cyclohexane	25.0	21.9		ug/L		87	59 - 135
Dibromochloromethane	25.0	26.4		ug/L		106	75 - 125
Dichlorodifluoromethane	25.0	25.1		ug/L		100	59 - 135
Ethylbenzene	25.0	24.0		ug/L		96	77 - 123
Isopropylbenzene	25.0	23.8		ug/L		95	77 - 122
Methyl acetate	50.0	52.1		ug/L		104	74 - 133
Methyl tert-butyl ether	25.0	22.8		ug/L		91	77 - 120
Methylcyclohexane	25.0	22.0		ug/L		88	68 - 134
Methylene Chloride	25.0	25.4		ug/L		102	75 - 124
Styrene	25.0	24.2		ug/L		97	80 - 120
Tetrachloroethene	25.0	24.6		ug/L		98	74 - 122
Toluene	25.0	23.4		ug/L		94	80 - 122
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	73 - 127
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	80 - 120
Trichloroethene	25.0	22.3		ug/L		89	74 - 123
Trichlorofluoromethane	25.0	27.4		ug/L		110	62 - 150
Vinyl chloride	25.0	23.8		ug/L		95	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	100		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: MB 480-444263/7

Matrix: Water

Analysis Batch: 444263

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/07/18 22:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 22:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/07/18 22:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/07/18 22:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/07/18 22:50	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/07/18 22:50	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/07/18 22:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/07/18 22:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/07/18 22:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/07/18 22:50	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/07/18 22:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/07/18 22:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/07/18 22:50	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/07/18 22:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/07/18 22:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/07/18 22:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/07/18 22:50	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/07/18 22:50	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

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

Lab Sample ID: MB 480-444263/7

Matrix: Water

Analysis Batch: 444263

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/07/18 22:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/07/18 22:50	1
Acetone	10	U	10	3.0	ug/L			11/07/18 22:50	1
Benzene	1.0	U	1.0	0.41	ug/L			11/07/18 22:50	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/07/18 22:50	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/07/18 22:50	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/07/18 22:50	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/07/18 22:50	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/07/18 22:50	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/07/18 22:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/07/18 22:50	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/07/18 22:50	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/07/18 22:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/07/18 22:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/07/18 22:50	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/07/18 22:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/07/18 22:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/07/18 22:50	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/07/18 22:50	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/07/18 22:50	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/07/18 22:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/07/18 22:50	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/07/18 22:50	1
Methylene Chloride	1.94		1.0	0.44	ug/L			11/07/18 22:50	1
Styrene	1.0	U	1.0	0.73	ug/L			11/07/18 22:50	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/07/18 22:50	1
Toluene	1.0	U	1.0	0.51	ug/L			11/07/18 22:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/07/18 22:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/07/18 22:50	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/07/18 22:50	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/07/18 22:50	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/07/18 22:50	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/07/18 22:50	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		11/07/18 22:50	1
4-Bromofluorobenzene (Surr)	101		73 - 120		11/07/18 22:50	1
Dibromofluoromethane (Surr)	100		75 - 123		11/07/18 22:50	1
Toluene-d8 (Surr)	103		80 - 120		11/07/18 22:50	1

Lab Sample ID: LCS 480-444263/5

Matrix: Water

Analysis Batch: 444263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	76 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

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

Lab Sample ID: LCS 480-444263/5

Matrix: Water

Analysis Batch: 444263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		93	61 - 148
1,1,2-Trichloroethane	25.0	24.0		ug/L		96	76 - 122
1,1-Dichloroethane	25.0	24.3		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	22.8		ug/L		91	66 - 127
1,2,3-Trimethylbenzene	25.0	26.6		ug/L		106	78 - 120
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.4		ug/L		106	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	25.1		ug/L		101	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	26.0		ug/L		104	76 - 120
1,3,5-Trimethylbenzene	25.0	25.4		ug/L		102	77 - 121
1,3-Dichlorobenzene	25.0	24.9		ug/L		100	77 - 120
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 120
2-Butanone (MEK)	125	122		ug/L		98	57 - 140
2-Hexanone	125	139		ug/L		111	65 - 127
4-Methyl-2-pentanone (MIBK)	125	131		ug/L		104	71 - 125
Acetone	125	123		ug/L		98	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	26.2		ug/L		105	80 - 122
Bromoform	25.0	28.2		ug/L		113	61 - 132
Bromomethane	25.0	21.4		ug/L		86	55 - 144
Carbon disulfide	25.0	23.5		ug/L		94	59 - 134
Carbon tetrachloride	25.0	24.4		ug/L		98	72 - 134
Chlorobenzene	25.0	24.7		ug/L		99	80 - 120
Chloroethane	25.0	21.1		ug/L		84	69 - 136
Chloroform	25.0	23.6		ug/L		95	73 - 127
Chloromethane	25.0	21.7		ug/L		87	68 - 124
cis-1,2-Dichloroethene	25.0	24.5		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	74 - 124
Cyclohexane	25.0	23.5		ug/L		94	59 - 135
Dibromochloromethane	25.0	27.3		ug/L		109	75 - 125
Dichlorodifluoromethane	25.0	21.8		ug/L		87	59 - 135
Ethylbenzene	25.0	25.1		ug/L		100	77 - 123
Isopropylbenzene	25.0	24.5		ug/L		98	77 - 122
Methyl acetate	50.0	53.2		ug/L		106	74 - 133
Methyl tert-butyl ether	25.0	25.2		ug/L		101	77 - 120
Methylcyclohexane	25.0	23.6		ug/L		94	68 - 134
Methylene Chloride	25.0	31.1	*	ug/L		125	75 - 124
Styrene	25.0	24.7		ug/L		99	80 - 120
Tetrachloroethene	25.0	26.1		ug/L		105	74 - 122
Toluene	25.0	23.9		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	23.9		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	26.9		ug/L		108	80 - 120
Trichloroethene	25.0	24.2		ug/L		97	74 - 123
Trichlorofluoromethane	25.0	24.1		ug/L		96	62 - 150

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

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

Lab Sample ID: LCS 480-444263/5

Matrix: Water

Analysis Batch: 444263

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	25.0	22.9		ug/L		92	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	98		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

GC/MS VOA

Analysis Batch: 444134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-144402-2	Well 1-3	Total/NA	Water	8260C	
480-144402-3	Well 1-3 Post	Total/NA	Water	8260C	
480-144402-4	Trip Blank	Total/NA	Water	8260C	
MB 480-444134/7	Method Blank	Total/NA	Water	8260C	
LCS 480-444134/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 444263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-144402-1	Well 1-2A	Total/NA	Water	8260C	
MB 480-444263/7	Method Blank	Total/NA	Water	8260C	
LCS 480-444263/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Client Sample ID: Well 1-2A

Date Collected: 10/30/18 10:10

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	444263	11/07/18 23:48	S1V	TAL BUF

Client Sample ID: Well 1-3

Date Collected: 10/30/18 10:05

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	444134	11/07/18 18:31	NMC	TAL BUF

Client Sample ID: Well 1-3 Post

Date Collected: 10/30/18 10:00

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	444134	11/07/18 18:55	NMC	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 10/30/18 00:00

Date Received: 10/31/18 00:40

Lab Sample ID: 480-144402-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	444134	11/07/18 19:18	NMC	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-144402-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-144402-1	Well 1-2A	Water	10/30/18 10:10	10/31/18 00:40
480-144402-2	Well 1-3	Water	10/30/18 10:05	10/31/18 00:40
480-144402-3	Well 1-3 Post	Water	10/30/18 10:00	10/31/18 00:40
480-144402-4	Trip Blank	Water	10/30/18 00:00	10/31/18 00:40

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-144402-1

Login Number: 144402

List Source: TestAmerica Buffalo

List Number: 1

Creator: Kinecki, Kenneth P

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-145116-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff



Authorized for release by:

11/23/2018 2:41:01 PM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Job ID: 480-145116-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-145116-1

Receipt

The samples were received on 11/13/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.4° C.

GC/MS VOA

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-145116-1

No Detections.

Client Sample ID: Well 1-3

Lab Sample ID: 480-145116-2

No Detections.

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-145116-3

No Detections.

Client Sample ID: Trip Blanks

Lab Sample ID: 480-145116-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Acetone	3.2	J	10	3.0	ug/L	1			8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-145116-1

Date Collected: 11/12/18 10:55

Matrix: Water

Date Received: 11/13/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/19/18 11:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 11:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/19/18 11:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/19/18 11:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/19/18 11:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/19/18 11:13	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/19/18 11:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/19/18 11:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/19/18 11:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/19/18 11:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/19/18 11:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/19/18 11:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 11:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/19/18 11:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/19/18 11:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/19/18 11:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/19/18 11:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/19/18 11:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/19/18 11:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/19/18 11:13	1
Acetone	10	U	10	3.0	ug/L			11/19/18 11:13	1
Benzene	1.0	U	1.0	0.41	ug/L			11/19/18 11:13	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/19/18 11:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/19/18 11:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/19/18 11:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/19/18 11:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/19/18 11:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/19/18 11:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/19/18 11:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/19/18 11:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/19/18 11:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/19/18 11:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/19/18 11:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/19/18 11:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/19/18 11:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/19/18 11:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/19/18 11:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/19/18 11:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/19/18 11:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/19/18 11:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/19/18 11:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/19/18 11:13	1
Styrene	1.0	U	1.0	0.73	ug/L			11/19/18 11:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/19/18 11:13	1
Toluene	1.0	U	1.0	0.51	ug/L			11/19/18 11:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/19/18 11:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/19/18 11:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/19/18 11:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/19/18 11:13	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-2A

Date Collected: 11/12/18 10:55

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/19/18 11:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/19/18 11:13	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120					11/19/18 11:13	1
4-Bromofluorobenzene (Surr)	101		73 - 120					11/19/18 11:13	1
Dibromofluoromethane (Surr)	98		75 - 123					11/19/18 11:13	1
Toluene-d8 (Surr)	95		80 - 120					11/19/18 11:13	1

Client Sample ID: Well 1-3

Date Collected: 11/12/18 11:05

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/19/18 11:40	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 11:40	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/19/18 11:40	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/19/18 11:40	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/19/18 11:40	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/19/18 11:40	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/19/18 11:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/19/18 11:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/19/18 11:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/19/18 11:40	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/19/18 11:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/19/18 11:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 11:40	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/19/18 11:40	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/19/18 11:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/19/18 11:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/19/18 11:40	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/19/18 11:40	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/19/18 11:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/19/18 11:40	1
Acetone	10	U	10	3.0	ug/L			11/19/18 11:40	1
Benzene	1.0	U	1.0	0.41	ug/L			11/19/18 11:40	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/19/18 11:40	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/19/18 11:40	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/19/18 11:40	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/19/18 11:40	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/19/18 11:40	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/19/18 11:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/19/18 11:40	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/19/18 11:40	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/19/18 11:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/19/18 11:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/19/18 11:40	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/19/18 11:40	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/19/18 11:40	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-3

Lab Sample ID: 480-145116-2

Date Collected: 11/12/18 11:05

Matrix: Water

Date Received: 11/13/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/19/18 11:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/19/18 11:40	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/19/18 11:40	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/19/18 11:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/19/18 11:40	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/19/18 11:40	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/19/18 11:40	1
Styrene	1.0	U	1.0	0.73	ug/L			11/19/18 11:40	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/19/18 11:40	1
Toluene	1.0	U	1.0	0.51	ug/L			11/19/18 11:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/19/18 11:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/19/18 11:40	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/19/18 11:40	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/19/18 11:40	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/19/18 11:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/19/18 11:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		11/19/18 11:40	1
4-Bromofluorobenzene (Surr)	103		73 - 120		11/19/18 11:40	1
Dibromofluoromethane (Surr)	99		75 - 123		11/19/18 11:40	1
Toluene-d8 (Surr)	99		80 - 120		11/19/18 11:40	1

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-145116-3

Date Collected: 11/12/18 11:00

Matrix: Water

Date Received: 11/13/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/19/18 12:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 12:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/19/18 12:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/19/18 12:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/19/18 12:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/19/18 12:07	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/19/18 12:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/19/18 12:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/19/18 12:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/19/18 12:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/19/18 12:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/19/18 12:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 12:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/19/18 12:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/19/18 12:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/19/18 12:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/19/18 12:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/19/18 12:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/19/18 12:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/19/18 12:07	1
Acetone	10	U	10	3.0	ug/L			11/19/18 12:07	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-3 Post

Lab Sample ID: 480-145116-3

Date Collected: 11/12/18 11:00

Matrix: Water

Date Received: 11/13/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			11/19/18 12:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/19/18 12:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/19/18 12:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/19/18 12:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/19/18 12:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/19/18 12:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/19/18 12:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/19/18 12:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/19/18 12:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/19/18 12:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/19/18 12:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/19/18 12:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/19/18 12:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/19/18 12:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/19/18 12:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/19/18 12:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/19/18 12:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/19/18 12:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/19/18 12:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/19/18 12:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/19/18 12:07	1
Styrene	1.0	U	1.0	0.73	ug/L			11/19/18 12:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/19/18 12:07	1
Toluene	1.0	U	1.0	0.51	ug/L			11/19/18 12:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/19/18 12:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/19/18 12:07	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/19/18 12:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/19/18 12:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/19/18 12:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/19/18 12:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	110		77 - 120		11/19/18 12:07	1
4-Bromofluorobenzene (Surr)	105		73 - 120		11/19/18 12:07	1
Dibromofluoromethane (Surr)	103		75 - 123		11/19/18 12:07	1
Toluene-d8 (Surr)	98		80 - 120		11/19/18 12:07	1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-145116-4

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/13/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/19/18 12:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 12:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/19/18 12:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/19/18 12:34	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/19/18 12:34	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/19/18 12:34	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/19/18 12:34	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Trip Blanks

Lab Sample ID: 480-145116-4

Date Collected: 11/12/18 00:00

Matrix: Water

Date Received: 11/13/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/19/18 12:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/19/18 12:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/19/18 12:34	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/19/18 12:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/19/18 12:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 12:34	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/19/18 12:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/19/18 12:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/19/18 12:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/19/18 12:34	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/19/18 12:34	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/19/18 12:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/19/18 12:34	1
Acetone	3.2	J	10	3.0	ug/L			11/19/18 12:34	1
Benzene	1.0	U	1.0	0.41	ug/L			11/19/18 12:34	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/19/18 12:34	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/19/18 12:34	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/19/18 12:34	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/19/18 12:34	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/19/18 12:34	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/19/18 12:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/19/18 12:34	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/19/18 12:34	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/19/18 12:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/19/18 12:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/19/18 12:34	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/19/18 12:34	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/19/18 12:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/19/18 12:34	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/19/18 12:34	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/19/18 12:34	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/19/18 12:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/19/18 12:34	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/19/18 12:34	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/19/18 12:34	1
Styrene	1.0	U	1.0	0.73	ug/L			11/19/18 12:34	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/19/18 12:34	1
Toluene	1.0	U	1.0	0.51	ug/L			11/19/18 12:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/19/18 12:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/19/18 12:34	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/19/18 12:34	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/19/18 12:34	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/19/18 12:34	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/19/18 12:34	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		11/19/18 12:34	1
4-Bromofluorobenzene (Surr)	101		73 - 120		11/19/18 12:34	1
Dibromofluoromethane (Surr)	96		75 - 123		11/19/18 12:34	1
Toluene-d8 (Surr)	97		80 - 120		11/19/18 12:34	1

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-145116-1	Well 1-2A	110	101	98	95
480-145116-2	Well 1-3	103	103	99	99
480-145116-3	Well 1-3 Post	110	105	103	98
480-145116-4	Trip Blanks	107	101	96	97
LCS 480-446306/5	Lab Control Sample	115	102	101	94
MB 480-446306/7	Method Blank	111	105	99	96

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-446306/7

Matrix: Water

Analysis Batch: 446306

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			11/19/18 10:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 10:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			11/19/18 10:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			11/19/18 10:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			11/19/18 10:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			11/19/18 10:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			11/19/18 10:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			11/19/18 10:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			11/19/18 10:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			11/19/18 10:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			11/19/18 10:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			11/19/18 10:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			11/19/18 10:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			11/19/18 10:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			11/19/18 10:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			11/19/18 10:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			11/19/18 10:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			11/19/18 10:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			11/19/18 10:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			11/19/18 10:36	1
Acetone	10	U	10	3.0	ug/L			11/19/18 10:36	1
Benzene	1.0	U	1.0	0.41	ug/L			11/19/18 10:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			11/19/18 10:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			11/19/18 10:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			11/19/18 10:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			11/19/18 10:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			11/19/18 10:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			11/19/18 10:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			11/19/18 10:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			11/19/18 10:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			11/19/18 10:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			11/19/18 10:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			11/19/18 10:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			11/19/18 10:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			11/19/18 10:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			11/19/18 10:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			11/19/18 10:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			11/19/18 10:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			11/19/18 10:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			11/19/18 10:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			11/19/18 10:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			11/19/18 10:36	1
Styrene	1.0	U	1.0	0.73	ug/L			11/19/18 10:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			11/19/18 10:36	1
Toluene	1.0	U	1.0	0.51	ug/L			11/19/18 10:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			11/19/18 10:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			11/19/18 10:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			11/19/18 10:36	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

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

Lab Sample ID: MB 480-446306/7

Matrix: Water

Analysis Batch: 446306

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			11/19/18 10:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			11/19/18 10:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			11/19/18 10:36	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		77 - 120					11/19/18 10:36	1
4-Bromofluorobenzene (Surr)	105		73 - 120					11/19/18 10:36	1
Dibromofluoromethane (Surr)	99		75 - 123					11/19/18 10:36	1
Toluene-d8 (Surr)	96		80 - 120					11/19/18 10:36	1

Lab Sample ID: LCS 480-446306/5

Matrix: Water

Analysis Batch: 446306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	24.9		ug/L		99	73 - 126
1,1,2,2-Tetrachloroethane	25.0	20.5		ug/L		82	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.8		ug/L		91	61 - 148
1,1,2-Trichloroethane	25.0	22.4		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	25.6		ug/L		102	77 - 120
1,1-Dichloroethene	25.0	21.9		ug/L		88	66 - 127
1,2,3-Trimethylbenzene	25.0	24.2		ug/L		97	78 - 120
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	79 - 122
1,2,4-Trimethylbenzene	25.0	23.9		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	56 - 134
1,2-Dibromoethane	25.0	23.4		ug/L		94	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	26.8		ug/L		107	75 - 120
1,2-Dichloropropane	25.0	24.4		ug/L		98	76 - 120
1,3,5-Trimethylbenzene	25.0	23.0		ug/L		92	77 - 121
1,3-Dichlorobenzene	25.0	23.2		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	23.2		ug/L		93	80 - 120
2-Butanone (MEK)	125	145		ug/L		116	57 - 140
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	124		ug/L		99	71 - 125
Acetone	125	147		ug/L		117	56 - 142
Benzene	25.0	22.6		ug/L		91	71 - 124
Bromodichloromethane	25.0	24.6		ug/L		98	80 - 122
Bromoform	25.0	24.1		ug/L		96	61 - 132
Bromomethane	25.0	20.3		ug/L		81	55 - 144
Carbon disulfide	25.0	19.0		ug/L		76	59 - 134
Carbon tetrachloride	25.0	25.1		ug/L		100	72 - 134
Chlorobenzene	25.0	24.4		ug/L		98	80 - 120
Chloroethane	25.0	22.5		ug/L		90	69 - 136
Chloroform	25.0	24.1		ug/L		97	73 - 127
Chloromethane	25.0	22.0		ug/L		88	68 - 124
cis-1,2-Dichloroethene	25.0	22.4		ug/L		90	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

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

Lab Sample ID: LCS 480-446306/5

Matrix: Water

Analysis Batch: 446306

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	24.2		ug/L		97	74 - 124
Cyclohexane	25.0	25.5		ug/L		102	59 - 135
Dibromochloromethane	25.0	24.1		ug/L		96	75 - 125
Dichlorodifluoromethane	25.0	18.4		ug/L		74	59 - 135
Ethylbenzene	25.0	23.1		ug/L		92	77 - 123
Isopropylbenzene	25.0	22.5		ug/L		90	77 - 122
Methyl acetate	50.0	51.5		ug/L		103	74 - 133
Methyl tert-butyl ether	25.0	23.3		ug/L		93	77 - 120
Methylcyclohexane	25.0	22.8		ug/L		91	68 - 134
Methylene Chloride	25.0	20.6		ug/L		82	75 - 124
Styrene	25.0	22.5		ug/L		90	80 - 120
Tetrachloroethene	25.0	27.4		ug/L		110	74 - 122
Toluene	25.0	22.2		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	21.5		ug/L		86	73 - 127
trans-1,3-Dichloropropene	25.0	23.5		ug/L		94	80 - 120
Trichloroethene	25.0	23.0		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	25.3		ug/L		101	62 - 150
Vinyl chloride	25.0	20.7		ug/L		83	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	115		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	101		75 - 123
Toluene-d8 (Surr)	94		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

GC/MS VOA

Analysis Batch: 446306

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-145116-1	Well 1-2A	Total/NA	Water	8260C	
480-145116-2	Well 1-3	Total/NA	Water	8260C	
480-145116-3	Well 1-3 Post	Total/NA	Water	8260C	
480-145116-4	Trip Blanks	Total/NA	Water	8260C	
MB 480-446306/7	Method Blank	Total/NA	Water	8260C	
LCS 480-446306/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Client Sample ID: Well 1-2A

Date Collected: 11/12/18 10:55

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446306	11/19/18 11:13	RLB	TAL BUF

Client Sample ID: Well 1-3

Date Collected: 11/12/18 11:05

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446306	11/19/18 11:40	RLB	TAL BUF

Client Sample ID: Well 1-3 Post

Date Collected: 11/12/18 11:00

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446306	11/19/18 12:07	RLB	TAL BUF

Client Sample ID: Trip Blanks

Date Collected: 11/12/18 00:00

Date Received: 11/13/18 01:00

Lab Sample ID: 480-145116-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	446306	11/19/18 12:34	RLB	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-145116-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-145116-1	Well 1-2A	Water	11/12/18 10:55	11/13/18 01:00
480-145116-2	Well 1-3	Water	11/12/18 11:05	11/13/18 01:00
480-145116-3	Well 1-3 Post	Water	11/12/18 11:00	11/13/18 01:00
480-145116-4	Trip Blanks	Water	11/12/18 00:00	11/13/18 01:00

THE LEADER IN ENVIRONMENTAL TESTING

Ver. 08/04/2016

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-145116-1

Login Number: 145116

List Source: TestAmerica Buffalo

List Number: 1

Creator: Velickovic, Zoran

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	Arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-147056-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

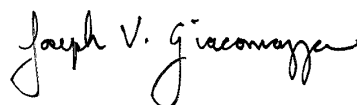
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff



Authorized for release by:

12/31/2018 10:38:37 AM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

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

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.
E	Compound concentration exceeds the upper level of the calibration range of the instrument for that specific analysis.
*	MS or MSD is outside acceptance limits.
*	Duplicate RPD exceeds control limits

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Job ID: 480-147056-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-147056-1

Receipt

The samples were received on 12/20/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4° C and 3.1° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-451978 recovered outside acceptance criteria, low biased, for Cyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. Sample affected: 4009-7 (480-147056-1), 4009-8 (480-147056-2), Well 1-2A (480-147056-3), 4009-9 (480-147056-4), 4009-10 (480-147056-5), 4009-11 (480-147056-6), 4009-12 (480-147056-7), 4009-13 (480-147056-8), 4009-13A (480-147056-9), 4009-14 (480-147056-10), 4009-15 (480-147056-11), 4009-16 (480-147056-12), 4009-16A (480-147056-13), 4009-18 (480-147056-14), 4009-19 (480-147056-15), 4009-21 (480-147056-16) and 4009-22 (480-147056-17).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-8 (480-147056-2), (480-147056-A-2 MS) and (480-147056-A-2 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-11 (480-147056-6), 4009-29S (480-147056-22), 4009-29I (480-147056-23), (480-147056-A-23 MS) and (480-147056-A-23 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-29S (480-147056-22) and Well 1-1 (480-147056-30). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: DUP2 (480-147056-28), 4009-26 (480-147056-29), (480-147056-B-28 MS) and (480-147056-B-28 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-452221 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-452309 recovered outside acceptance criteria, low biased, for Carbon tetrachloride and Cyclohexane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following sample is impacted: 4009-26 (480-147056-29).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-26 (480-147056-29), (480-147056-C-29 MS) and (480-147056-C-29 MSD). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-7

Lab Sample ID: 480-147056-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	0.47	J	1.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	36		1.0	0.81	ug/L	1		8260C	Total/NA
Vinyl chloride	6.2		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-8

Lab Sample ID: 480-147056-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2000		40	33	ug/L	40		8260C	Total/NA
1,1-Dichloroethane	96		40	15	ug/L	40		8260C	Total/NA
1,1-Dichloroethene	110		40	12	ug/L	40		8260C	Total/NA
cis-1,2-Dichloroethene	700		40	32	ug/L	40		8260C	Total/NA
Trichloroethene	330		40	18	ug/L	40		8260C	Total/NA

Client Sample ID: Well 1-2A

Lab Sample ID: 480-147056-3

No Detections.

Client Sample ID: 4009-9

Lab Sample ID: 480-147056-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.2	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10

Lab Sample ID: 480-147056-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.61	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11

Lab Sample ID: 480-147056-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	160	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	49		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	17		1.0	0.29	ug/L	1		8260C	Total/NA
Chloroethane	1.7		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	48		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	4.7		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	38		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	170		4.0	3.3	ug/L	4		8260C	Total/NA
1,1-Dichloroethane - DL	51		4.0	1.5	ug/L	4		8260C	Total/NA
1,1-Dichloroethene - DL	17		4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene - DL	50		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene - DL	5.0		4.0	1.8	ug/L	4		8260C	Total/NA
Vinyl chloride - DL	40		4.0	3.6	ug/L	4		8260C	Total/NA

Client Sample ID: 4009-12

Lab Sample ID: 480-147056-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	80		1.0	0.82	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-12 (Continued)

Lab Sample ID: 480-147056-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	J	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	12		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.9		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	5.2	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	0.32	J	1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	14		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	34		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13

Lab Sample ID: 480-147056-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.2	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.76	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-13A

Lab Sample ID: 480-147056-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.2	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-14

Lab Sample ID: 480-147056-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.8	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.5		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-15

Lab Sample ID: 480-147056-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.6	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	8.7		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16

Lab Sample ID: 480-147056-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.3		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A

Lab Sample ID: 480-147056-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloroform	0.44	J	1.0	0.34	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-18

Lab Sample ID: 480-147056-14

No Detections.

Client Sample ID: 4009-19

Lab Sample ID: 480-147056-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.50	J	1.0	0.41	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-21

Lab Sample ID: 480-147056-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	11		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22

Lab Sample ID: 480-147056-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.96	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27S

Lab Sample ID: 480-147056-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	43		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	1.9		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.2		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	6.3	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	21		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27I

Lab Sample ID: 480-147056-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Trichloroethene	2.2		1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D

Lab Sample ID: 480-147056-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.0	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-28

Lab Sample ID: 480-147056-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	2.5		1.0	0.82	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S

Lab Sample ID: 480-147056-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1100	E	10	8.2	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	95		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	85		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	430		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene	220		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	120		10	9.0	ug/L	10		8260C	Total/NA
1,1,1-Trichloroethane - DL	1000		20	16	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	93		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene - DL	79		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	430		20	16	ug/L	20		8260C	Total/NA
Trichloroethene - DL	210		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	110		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-29I

Lab Sample ID: 480-147056-23

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29I (Continued)

Lab Sample ID: 480-147056-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	950		20	16	ug/L	20		8260C	Total/NA
1,1-Dichloroethane	72		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene	79		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene	350		20	16	ug/L	20		8260C	Total/NA
Trichloroethene	330		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride	68		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-29D

Lab Sample ID: 480-147056-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	56		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	14		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.7		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	2.9		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	20		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	12		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	15		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30

Lab Sample ID: 480-147056-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.1		1.0	0.38	ug/L	1		8260C	Total/NA
Benzene	0.87	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30A

Lab Sample ID: 480-147056-26

No Detections.

Client Sample ID: DUP1

Lab Sample ID: 480-147056-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	88		1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	0.83	J	1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	13		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	4.2		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	5.8	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	15		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	13		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	38		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: DUP2

Lab Sample ID: 480-147056-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	910	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	8.1		1.0	0.31	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.57	J	1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	62		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	65		1.0	0.29	ug/L	1		8260C	Total/NA
1,2-Dichloroethane	0.24	J	1.0	0.21	ug/L	1		8260C	Total/NA
Acetone	5.6	J	10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: DUP2 (Continued)

Lab Sample ID: 480-147056-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.2		1.0	0.75	ug/L	1		8260C	Total/NA
Chloroethane	2.4		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	0.49	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	320	E	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.5		1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.1		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	300	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	60		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	890		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	9.2	J	10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	63		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	63		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	320		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene - DL	300		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	66		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-26

Lab Sample ID: 480-147056-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	500	E	5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	12		5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane	45		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene	16		5.0	1.5	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene	190		5.0	4.1	ug/L	5		8260C	Total/NA
Tetrachloroethene	1.8	J	5.0	1.8	ug/L	5		8260C	Total/NA
Trichloroethene	120		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride	13		5.0	4.5	ug/L	5		8260C	Total/NA
1,1,1-Trichloroethane - DL	530		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	12		10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	49		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	19		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	200		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene - DL	130		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	14		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: Well 1-1

Lab Sample ID: 480-147056-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	220		4.0	3.3	ug/L	4		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.2	J	4.0	1.2	ug/L	4		8260C	Total/NA
1,1-Dichloroethane	25		4.0	1.5	ug/L	4		8260C	Total/NA
1,1-Dichloroethene	18		4.0	1.2	ug/L	4		8260C	Total/NA
cis-1,2-Dichloroethene	78		4.0	3.2	ug/L	4		8260C	Total/NA
Trichloroethene	67		4.0	1.8	ug/L	4		8260C	Total/NA

Client Sample ID: Well 1-3

Lab Sample ID: 480-147056-31

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-3POST

Lab Sample ID: 480-147056-32

No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 480-147056-33

No Detections.

Client Sample ID: 4009-11A

Lab Sample ID: 480-147056-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.9	J	10	3.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-7

Date Collected: 12/19/18 13:48

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-1

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 21:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 21:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 21:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 21:09	1
1,1-Dichloroethane	0.47	J	1.0	0.38	ug/L			12/20/18 21:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 21:09	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 21:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 21:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 21:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 21:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 21:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 21:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 21:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 21:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 21:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 21:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 21:09	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 21:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 21:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 21:09	1
Acetone	10	U	10	3.0	ug/L			12/20/18 21:09	1
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 21:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 21:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 21:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 21:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 21:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 21:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 21:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 21:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 21:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 21:09	1
cis-1,2-Dichloroethene	36		1.0	0.81	ug/L			12/20/18 21:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 21:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 21:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 21:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 21:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 21:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 21:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 21:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 21:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 21:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 21:09	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 21:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 21:09	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 21:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 21:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 21:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 21:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 21:09	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-7

Date Collected: 12/19/18 13:48

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	6.2		1.0	0.90	ug/L			12/20/18 21:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 21:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120					12/20/18 21:09	1
4-Bromofluorobenzene (Surr)	103		73 - 120					12/20/18 21:09	1
Dibromofluoromethane (Surr)	97		75 - 123					12/20/18 21:09	1
Toluene-d8 (Surr)	103		80 - 120					12/20/18 21:09	1

Client Sample ID: 4009-8

Date Collected: 12/19/18 13:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-2

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2000		40	33	ug/L			12/20/18 21:32	40
1,1,2,2-Tetrachloroethane	40	U	40	8.4	ug/L			12/20/18 21:32	40
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	40	12	ug/L			12/20/18 21:32	40
1,1,2-Trichloroethane	40	U	40	9.2	ug/L			12/20/18 21:32	40
1,1-Dichloroethane	96		40	15	ug/L			12/20/18 21:32	40
1,1-Dichloroethene	110		40	12	ug/L			12/20/18 21:32	40
1,2,3-Trimethylbenzene	40	U	40	10	ug/L			12/20/18 21:32	40
1,2,4-Trichlorobenzene	40	U	40	16	ug/L			12/20/18 21:32	40
1,2,4-Trimethylbenzene	40	U	40	30	ug/L			12/20/18 21:32	40
1,2-Dibromo-3-Chloropropane	40	U	40	16	ug/L			12/20/18 21:32	40
1,2-Dibromoethane	40	U	40	29	ug/L			12/20/18 21:32	40
1,2-Dichlorobenzene	40	U	40	32	ug/L			12/20/18 21:32	40
1,2-Dichloroethane	40	U	40	8.4	ug/L			12/20/18 21:32	40
1,2-Dichloropropane	40	U	40	29	ug/L			12/20/18 21:32	40
1,3,5-Trimethylbenzene	40	U	40	31	ug/L			12/20/18 21:32	40
1,3-Dichlorobenzene	40	U	40	31	ug/L			12/20/18 21:32	40
1,4-Dichlorobenzene	40	U	40	34	ug/L			12/20/18 21:32	40
2-Butanone (MEK)	400	U	400	53	ug/L			12/20/18 21:32	40
2-Hexanone	200	U	200	50	ug/L			12/20/18 21:32	40
4-Methyl-2-pentanone (MIBK)	200	U	200	84	ug/L			12/20/18 21:32	40
Acetone	400	U	400	120	ug/L			12/20/18 21:32	40
Benzene	40	U	40	16	ug/L			12/20/18 21:32	40
Bromodichloromethane	40	U	40	16	ug/L			12/20/18 21:32	40
Bromoform	40	U	40	10	ug/L			12/20/18 21:32	40
Bromomethane	40	U	40	28	ug/L			12/20/18 21:32	40
Carbon disulfide	40	U	40	7.6	ug/L			12/20/18 21:32	40
Carbon tetrachloride	40	U	40	11	ug/L			12/20/18 21:32	40
Chlorobenzene	40	U	40	30	ug/L			12/20/18 21:32	40
Chloroethane	40	U	40	13	ug/L			12/20/18 21:32	40
Chloroform	40	U	40	14	ug/L			12/20/18 21:32	40
Chloromethane	40	U	40	14	ug/L			12/20/18 21:32	40
cis-1,2-Dichloroethene	700		40	32	ug/L			12/20/18 21:32	40
cis-1,3-Dichloropropene	40	U	40	14	ug/L			12/20/18 21:32	40
Cyclohexane	40	U	40	7.2	ug/L			12/20/18 21:32	40
Dibromochloromethane	40	U	40	13	ug/L			12/20/18 21:32	40

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-8

Date Collected: 12/19/18 13:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	40	U	40	27	ug/L			12/20/18 21:32	40
Ethylbenzene	40	U	40	30	ug/L			12/20/18 21:32	40
Isopropylbenzene	40	U	40	32	ug/L			12/20/18 21:32	40
Methyl acetate	100	U	100	52	ug/L			12/20/18 21:32	40
Methyl tert-butyl ether	40	U	40	6.4	ug/L			12/20/18 21:32	40
Methylcyclohexane	40	U	40	6.4	ug/L			12/20/18 21:32	40
Methylene Chloride	40	U	40	18	ug/L			12/20/18 21:32	40
Styrene	40	U	40	29	ug/L			12/20/18 21:32	40
Tetrachloroethene	40	U	40	14	ug/L			12/20/18 21:32	40
Toluene	40	U	40	20	ug/L			12/20/18 21:32	40
trans-1,2-Dichloroethene	40	U	40	36	ug/L			12/20/18 21:32	40
trans-1,3-Dichloropropene	40	U	40	15	ug/L			12/20/18 21:32	40
Trichloroethene	330		40	18	ug/L			12/20/18 21:32	40
Trichlorofluoromethane	40	U	40	35	ug/L			12/20/18 21:32	40
Vinyl chloride	40	U	40	36	ug/L			12/20/18 21:32	40
Xylenes, Total	80	U	80	26	ug/L			12/20/18 21:32	40

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/20/18 21:32	40
4-Bromofluorobenzene (Surr)	103		73 - 120		12/20/18 21:32	40
Dibromofluoromethane (Surr)	102		75 - 123		12/20/18 21:32	40
Toluene-d8 (Surr)	100		80 - 120		12/20/18 21:32	40

Client Sample ID: Well 1-2A

Date Collected: 12/19/18 10:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-3

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 21:55	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 21:55	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 21:55	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 21:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/20/18 21:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 21:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 21:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 21:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 21:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 21:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 21:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 21:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 21:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 21:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 21:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 21:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 21:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 21:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 21:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 21:55	1
Acetone	10	U	10	3.0	ug/L			12/20/18 21:55	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-2A

Date Collected: 12/19/18 10:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 21:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 21:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 21:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 21:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 21:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 21:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 21:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 21:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 21:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 21:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/20/18 21:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 21:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 21:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 21:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 21:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 21:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 21:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 21:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 21:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 21:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 21:55	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 21:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 21:55	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 21:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 21:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 21:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 21:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 21:55	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/20/18 21:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 21:55	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/20/18 21:55	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/20/18 21:55	1
Dibromofluoromethane (Surr)	103		75 - 123		12/20/18 21:55	1
Toluene-d8 (Surr)	101		80 - 120		12/20/18 21:55	1

Client Sample ID: 4009-9

Date Collected: 12/19/18 13:07

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-4

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 22:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 22:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 22:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 22:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/20/18 22:18	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 22:18	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 22:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-9

Date Collected: 12/19/18 13:07

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 22:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 22:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 22:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 22:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 22:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 22:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 22:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 22:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 22:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 22:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 22:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 22:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 22:18	1
Acetone	5.2	J	10	3.0	ug/L			12/20/18 22:18	1
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 22:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 22:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 22:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 22:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 22:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 22:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 22:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 22:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 22:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 22:18	1
cis-1,2-Dichloroethene	1.6		1.0	0.81	ug/L			12/20/18 22:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 22:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 22:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 22:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 22:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 22:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 22:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 22:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 22:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 22:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 22:18	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 22:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 22:18	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 22:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 22:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 22:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 22:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 22:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/20/18 22:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 22:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/20/18 22:18	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/20/18 22:18	1
Dibromofluoromethane (Surr)	98		75 - 123		12/20/18 22:18	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-9

Date Collected: 12/19/18 13:07

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	102		80 - 120		12/20/18 22:18	1

Client Sample ID: 4009-10

Date Collected: 12/19/18 13:14

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-5

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 22:41	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 22:41	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 22:41	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 22:41	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/20/18 22:41	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 22:41	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 22:41	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 22:41	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 22:41	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 22:41	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 22:41	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 22:41	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 22:41	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 22:41	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 22:41	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 22:41	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 22:41	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 22:41	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 22:41	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 22:41	1
Acetone	4.8	J	10	3.0	ug/L			12/20/18 22:41	1
Benzene	0.61	J	1.0	0.41	ug/L			12/20/18 22:41	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 22:41	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 22:41	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 22:41	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 22:41	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 22:41	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 22:41	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 22:41	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 22:41	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 22:41	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/20/18 22:41	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 22:41	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 22:41	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 22:41	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 22:41	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 22:41	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 22:41	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 22:41	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 22:41	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 22:41	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-10

Lab Sample ID: 480-147056-5

Date Collected: 12/19/18 13:14

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 22:41	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 22:41	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 22:41	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 22:41	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 22:41	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 22:41	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 22:41	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 22:41	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/20/18 22:41	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 22:41	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		12/20/18 22:41	1
4-Bromofluorobenzene (Surr)	105		73 - 120		12/20/18 22:41	1
Dibromofluoromethane (Surr)	101		75 - 123		12/20/18 22:41	1
Toluene-d8 (Surr)	101		80 - 120		12/20/18 22:41	1

Client Sample ID: 4009-11

Lab Sample ID: 480-147056-6

Date Collected: 12/19/18 13:20

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	160	E	1.0	0.82	ug/L			12/20/18 23:04	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6		1.0	0.31	ug/L			12/20/18 23:04	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 23:04	1
1,1-Dichloroethane	49		1.0	0.38	ug/L			12/20/18 23:04	1
1,1-Dichloroethene	17		1.0	0.29	ug/L			12/20/18 23:04	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 23:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 23:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 23:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 23:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 23:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 23:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 23:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 23:04	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 23:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 23:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 23:04	1
Acetone	10	U	10	3.0	ug/L			12/20/18 23:04	1
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 23:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 23:04	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 23:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 23:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 23:04	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-11

Lab Sample ID: 480-147056-6

Date Collected: 12/19/18 13:20

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 23:04	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:04	1
Chloroethane	1.7		1.0	0.32	ug/L			12/20/18 23:04	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 23:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 23:04	1
cis-1,2-Dichloroethene	48		1.0	0.81	ug/L			12/20/18 23:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 23:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 23:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 23:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 23:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 23:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:04	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 23:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 23:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 23:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 23:04	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 23:04	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 23:04	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 23:04	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 23:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 23:04	1
Trichloroethene	4.7		1.0	0.46	ug/L			12/20/18 23:04	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 23:04	1
Vinyl chloride	38		1.0	0.90	ug/L			12/20/18 23:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 23:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		12/20/18 23:04	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/20/18 23:04	1
Dibromofluoromethane (Surr)	100		75 - 123		12/20/18 23:04	1
Toluene-d8 (Surr)	100		80 - 120		12/20/18 23:04	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	170		4.0	3.3	ug/L			12/21/18 13:10	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			12/21/18 13:10	4
1,1,2-Trichloro-1,2,2-trifluoroethane	4.0	U	4.0	1.2	ug/L			12/21/18 13:10	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			12/21/18 13:10	4
1,1-Dichloroethane	51		4.0	1.5	ug/L			12/21/18 13:10	4
1,1-Dichloroethene	17		4.0	1.2	ug/L			12/21/18 13:10	4
1,2,3-Trimethylbenzene	4.0	U	4.0	1.0	ug/L			12/21/18 13:10	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			12/21/18 13:10	4
1,2,4-Trimethylbenzene	4.0	U	4.0	3.0	ug/L			12/21/18 13:10	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			12/21/18 13:10	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			12/21/18 13:10	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			12/21/18 13:10	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			12/21/18 13:10	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			12/21/18 13:10	4
1,3,5-Trimethylbenzene	4.0	U	4.0	3.1	ug/L			12/21/18 13:10	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			12/21/18 13:10	4

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-11

Lab Sample ID: 480-147056-6

Date Collected: 12/19/18 13:20

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			12/21/18 13:10	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			12/21/18 13:10	4
2-Hexanone	20	U	20	5.0	ug/L			12/21/18 13:10	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			12/21/18 13:10	4
Acetone	40	U	40	12	ug/L			12/21/18 13:10	4
Benzene	4.0	U	4.0	1.6	ug/L			12/21/18 13:10	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			12/21/18 13:10	4
Bromoform	4.0	U	4.0	1.0	ug/L			12/21/18 13:10	4
Bromomethane	4.0	U	4.0	2.8	ug/L			12/21/18 13:10	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			12/21/18 13:10	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			12/21/18 13:10	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			12/21/18 13:10	4
Chloroethane	4.0	U	4.0	1.3	ug/L			12/21/18 13:10	4
Chloroform	4.0	U	4.0	1.4	ug/L			12/21/18 13:10	4
Chloromethane	4.0	U	4.0	1.4	ug/L			12/21/18 13:10	4
cis-1,2-Dichloroethene	50		4.0	3.2	ug/L			12/21/18 13:10	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			12/21/18 13:10	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			12/21/18 13:10	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			12/21/18 13:10	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			12/21/18 13:10	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			12/21/18 13:10	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			12/21/18 13:10	4
Methyl acetate	10	U	10	5.2	ug/L			12/21/18 13:10	4
Methyl tert-butyl ether	4.0	U	4.0	0.64	ug/L			12/21/18 13:10	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			12/21/18 13:10	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			12/21/18 13:10	4
Styrene	4.0	U	4.0	2.9	ug/L			12/21/18 13:10	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			12/21/18 13:10	4
Toluene	4.0	U	4.0	2.0	ug/L			12/21/18 13:10	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			12/21/18 13:10	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			12/21/18 13:10	4
Trichloroethene	5.0		4.0	1.8	ug/L			12/21/18 13:10	4
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			12/21/18 13:10	4
Vinyl chloride	40		4.0	3.6	ug/L			12/21/18 13:10	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			12/21/18 13:10	4

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/21/18 13:10	4
4-Bromofluorobenzene (Surr)	105		73 - 120		12/21/18 13:10	4
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 13:10	4
Toluene-d8 (Surr)	100		80 - 120		12/21/18 13:10	4

Client Sample ID: 4009-12

Lab Sample ID: 480-147056-7

Date Collected: 12/19/18 12:06

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	80		1.0	0.82	ug/L			12/20/18 23:27	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-12

Lab Sample ID: 480-147056-7

Date Collected: 12/19/18 12:06

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	0.76	J	1.0	0.31	ug/L			12/20/18 23:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 23:27	1
1,1-Dichloroethane	12		1.0	0.38	ug/L			12/20/18 23:27	1
1,1-Dichloroethene	3.9		1.0	0.29	ug/L			12/20/18 23:27	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 23:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 23:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 23:27	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 23:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:27	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 23:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 23:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 23:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 23:27	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 23:27	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 23:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 23:27	1
Acetone	5.2	J	10	3.0	ug/L			12/20/18 23:27	1
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 23:27	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 23:27	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 23:27	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 23:27	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 23:27	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 23:27	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:27	1
Chloroethane	0.32	J	1.0	0.32	ug/L			12/20/18 23:27	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 23:27	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 23:27	1
cis-1,2-Dichloroethene	14		1.0	0.81	ug/L			12/20/18 23:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 23:27	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 23:27	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 23:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 23:27	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 23:27	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:27	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 23:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 23:27	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 23:27	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 23:27	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 23:27	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 23:27	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 23:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 23:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 23:27	1
Trichloroethene	13		1.0	0.46	ug/L			12/20/18 23:27	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 23:27	1
Vinyl chloride	34		1.0	0.90	ug/L			12/20/18 23:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-12

Lab Sample ID: 480-147056-7

Date Collected: 12/19/18 12:06

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 23:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					12/20/18 23:27	1
4-Bromofluorobenzene (Surr)	99		73 - 120					12/20/18 23:27	1
Dibromofluoromethane (Surr)	101		75 - 123					12/20/18 23:27	1
Toluene-d8 (Surr)	97		80 - 120					12/20/18 23:27	1

Client Sample ID: 4009-13

Lab Sample ID: 480-147056-8

Date Collected: 12/19/18 12:42

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 23:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 23:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 23:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/20/18 23:50	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 23:50	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 23:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 23:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 23:50	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 23:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 23:50	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 23:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 23:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 23:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 23:50	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 23:50	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 23:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 23:50	1
Acetone	5.2	J	10	3.0	ug/L			12/20/18 23:50	1
Benzene	0.76	J	1.0	0.41	ug/L			12/20/18 23:50	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 23:50	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 23:50	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 23:50	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 23:50	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 23:50	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 23:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 23:50	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 23:50	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 23:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/20/18 23:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 23:50	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 23:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 23:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 23:50	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-13

Lab Sample ID: 480-147056-8

Date Collected: 12/19/18 12:42

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 23:50	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 23:50	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 23:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 23:50	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 23:50	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 23:50	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 23:50	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 23:50	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 23:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 23:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 23:50	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 23:50	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 23:50	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/20/18 23:50	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 23:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/20/18 23:50	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/20/18 23:50	1
Dibromofluoromethane (Surr)	100		75 - 123		12/20/18 23:50	1
Toluene-d8 (Surr)	99		80 - 120		12/20/18 23:50	1

Client Sample ID: 4009-13A

Lab Sample ID: 480-147056-9

Date Collected: 12/19/18 12:45

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 00:13	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:13	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 00:13	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 00:13	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 00:13	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 00:13	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 00:13	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 00:13	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:13	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 00:13	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 00:13	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:13	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:13	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 00:13	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 00:13	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 00:13	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 00:13	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 00:13	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 00:13	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 00:13	1
Acetone	4.2	J	10	3.0	ug/L			12/21/18 00:13	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 00:13	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-147056-9

Date Collected: 12/19/18 12:45

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 00:13	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 00:13	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 00:13	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 00:13	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 00:13	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:13	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:13	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 00:13	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 00:13	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 00:13	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 00:13	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 00:13	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:13	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 00:13	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 00:13	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:13	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 00:13	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 00:13	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 00:13	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 00:13	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 00:13	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 00:13	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 00:13	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 00:13	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 00:13	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 00:13	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 00:13	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 00:13	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 00:13	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		12/21/18 00:13	1
4-Bromofluorobenzene (Surr)	104		73 - 120		12/21/18 00:13	1
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 00:13	1
Toluene-d8 (Surr)	98		80 - 120		12/21/18 00:13	1

Client Sample ID: 4009-14

Lab Sample ID: 480-147056-10

Date Collected: 12/19/18 10:20

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 00:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 00:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 00:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 00:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 00:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 00:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 00:36	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-14

Date Collected: 12/19/18 10:20

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 00:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 00:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 00:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 00:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 00:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 00:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 00:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 00:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 00:36	1
Acetone	4.8	J	10	3.0	ug/L			12/21/18 00:36	1
Benzene	1.5		1.0	0.41	ug/L			12/21/18 00:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 00:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 00:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 00:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 00:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 00:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 00:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 00:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 00:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 00:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 00:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 00:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 00:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 00:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 00:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 00:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 00:36	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 00:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 00:36	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 00:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 00:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 00:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 00:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 00:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 00:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 00:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/21/18 00:36	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/21/18 00:36	1
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 00:36	1
Toluene-d8 (Surr)	99		80 - 120		12/21/18 00:36	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-15

Lab Sample ID: 480-147056-11

Date Collected: 12/19/18 11:24

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 00:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 00:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 00:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 00:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 00:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 00:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 00:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 00:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 00:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 00:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 00:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 00:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 00:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 00:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 00:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 00:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 00:59	1
Acetone	5.6	J	10	3.0	ug/L			12/21/18 00:59	1
Benzene	8.7		1.0	0.41	ug/L			12/21/18 00:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 00:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 00:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 00:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 00:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 00:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 00:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 00:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 00:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 00:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 00:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 00:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 00:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 00:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 00:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 00:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 00:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 00:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 00:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 00:59	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 00:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 00:59	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 00:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 00:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 00:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 00:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 00:59	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-15

Date Collected: 12/19/18 11:24

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 00:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					12/21/18 00:59	1
4-Bromofluorobenzene (Surr)	107		73 - 120					12/21/18 00:59	1
Dibromofluoromethane (Surr)	101		75 - 123					12/21/18 00:59	1
Toluene-d8 (Surr)	103		80 - 120					12/21/18 00:59	1

Client Sample ID: 4009-16

Date Collected: 12/19/18 11:47

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-12

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 01:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 01:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 01:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 01:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 01:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 01:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 01:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 01:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 01:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 01:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 01:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 01:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 01:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 01:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 01:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 01:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 01:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 01:22	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 01:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 01:22	1
Acetone	10	U	10	3.0	ug/L			12/21/18 01:22	1
Benzene	7.3		1.0	0.41	ug/L			12/21/18 01:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 01:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 01:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 01:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 01:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 01:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 01:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 01:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 01:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 01:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 01:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 01:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 01:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 01:22	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-16

Lab Sample ID: 480-147056-12

Date Collected: 12/19/18 11:47

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 01:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 01:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 01:22	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 01:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 01:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 01:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 01:22	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 01:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 01:22	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 01:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 01:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 01:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 01:22	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 01:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 01:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 01:22	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		12/21/18 01:22	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/21/18 01:22	1
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 01:22	1
Toluene-d8 (Surr)	99		80 - 120		12/21/18 01:22	1

Client Sample ID: 4009-16A

Lab Sample ID: 480-147056-13

Date Collected: 12/19/18 11:50

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 01:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 01:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 01:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 01:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 01:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 01:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 01:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 01:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 01:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 01:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 01:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 01:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 01:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 01:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 01:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 01:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 01:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 01:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 01:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 01:45	1
Acetone	10	U	10	3.0	ug/L			12/21/18 01:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-16A

Date Collected: 12/19/18 11:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 01:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 01:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 01:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 01:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 01:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 01:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 01:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 01:45	1
Chloroform	0.44	J	1.0	0.34	ug/L			12/21/18 01:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 01:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 01:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 01:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 01:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 01:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 01:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 01:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 01:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 01:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 01:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 01:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 01:45	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 01:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 01:45	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 01:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 01:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 01:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 01:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 01:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 01:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 01:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		12/21/18 01:45	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/21/18 01:45	1
Dibromofluoromethane (Surr)	101		75 - 123		12/21/18 01:45	1
Toluene-d8 (Surr)	98		80 - 120		12/21/18 01:45	1

Client Sample ID: 4009-18

Date Collected: 12/19/18 10:57

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-14

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 02:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 02:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 02:08	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 02:08	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 02:08	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 02:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-18

Lab Sample ID: 480-147056-14

Date Collected: 12/19/18 10:57

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 02:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 02:08	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 02:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:08	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 02:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 02:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 02:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 02:08	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 02:08	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 02:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 02:08	1
Acetone	10	U	10	3.0	ug/L			12/21/18 02:08	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 02:08	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 02:08	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 02:08	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 02:08	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 02:08	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 02:08	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:08	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 02:08	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 02:08	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 02:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 02:08	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 02:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 02:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 02:08	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:08	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 02:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 02:08	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 02:08	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 02:08	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 02:08	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 02:08	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 02:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 02:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 02:08	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 02:08	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 02:08	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 02:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 02:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		12/21/18 02:08	1
4-Bromofluorobenzene (Surr)	106		73 - 120		12/21/18 02:08	1
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 02:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-18

Date Collected: 12/19/18 10:57

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-14

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	103		80 - 120		12/21/18 02:08	1

Client Sample ID: 4009-19

Date Collected: 12/19/18 11:15

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-15

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 02:31	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:31	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 02:31	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 02:31	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 02:31	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 02:31	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 02:31	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 02:31	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:31	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 02:31	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 02:31	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:31	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:31	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 02:31	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 02:31	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 02:31	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 02:31	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 02:31	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 02:31	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 02:31	1
Acetone	10	U	10	3.0	ug/L			12/21/18 02:31	1
Benzene	0.50	J	1.0	0.41	ug/L			12/21/18 02:31	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 02:31	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 02:31	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 02:31	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 02:31	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 02:31	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:31	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:31	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 02:31	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 02:31	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 02:31	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 02:31	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 02:31	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:31	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 02:31	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 02:31	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:31	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 02:31	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 02:31	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 02:31	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-19

Date Collected: 12/19/18 11:15

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 02:31	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 02:31	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 02:31	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 02:31	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 02:31	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 02:31	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 02:31	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 02:31	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 02:31	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 02:31	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120					12/21/18 02:31	1
4-Bromofluorobenzene (Surr)	101		73 - 120					12/21/18 02:31	1
Dibromofluoromethane (Surr)	103		75 - 123					12/21/18 02:31	1
Toluene-d8 (Surr)	97		80 - 120					12/21/18 02:31	1

Client Sample ID: 4009-21

Date Collected: 12/19/18 11:08

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-16

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 02:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 02:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 02:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 02:54	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 02:54	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 02:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 02:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 02:54	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 02:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 02:54	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 02:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 02:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 02:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 02:54	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 02:54	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 02:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 02:54	1
Acetone	10	U	10	3.0	ug/L			12/21/18 02:54	1
Benzene	11		1.0	0.41	ug/L			12/21/18 02:54	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 02:54	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 02:54	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 02:54	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 02:54	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 02:54	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-21

Date Collected: 12/19/18 11:08

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 02:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:54	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 02:54	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 02:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 02:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 02:54	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 02:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 02:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 02:54	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 02:54	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 02:54	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 02:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 02:54	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 02:54	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 02:54	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 02:54	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 02:54	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 02:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 02:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 02:54	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 02:54	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 02:54	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 02:54	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 02:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/21/18 02:54	1
4-Bromofluorobenzene (Surr)	107		73 - 120		12/21/18 02:54	1
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 02:54	1
Toluene-d8 (Surr)	101		80 - 120		12/21/18 02:54	1

Client Sample ID: 4009-22

Date Collected: 12/19/18 10:10

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-17

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 03:17	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 03:17	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 03:17	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 03:17	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 03:17	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 03:17	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 03:17	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 03:17	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 03:17	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 03:17	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 03:17	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 03:17	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 03:17	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-22

Lab Sample ID: 480-147056-17

Date Collected: 12/19/18 10:10

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 03:17	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 03:17	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 03:17	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 03:17	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 03:17	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 03:17	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 03:17	1
Acetone	10	U	10	3.0	ug/L			12/21/18 03:17	1
Benzene	0.96	J	1.0	0.41	ug/L			12/21/18 03:17	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 03:17	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 03:17	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 03:17	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 03:17	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 03:17	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 03:17	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 03:17	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 03:17	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 03:17	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 03:17	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 03:17	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 03:17	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 03:17	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 03:17	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 03:17	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 03:17	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 03:17	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 03:17	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 03:17	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 03:17	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 03:17	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 03:17	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 03:17	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 03:17	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 03:17	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 03:17	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 03:17	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 03:17	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 03:17	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					12/21/18 03:17	1
4-Bromofluorobenzene (Surr)	101		73 - 120					12/21/18 03:17	1
Dibromofluoromethane (Surr)	100		75 - 123					12/21/18 03:17	1
Toluene-d8 (Surr)	98		80 - 120					12/21/18 03:17	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-147056-18

Date Collected: 12/19/18 12:53

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	43		1.0	0.82	ug/L			12/21/18 13:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 13:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	2.3		1.0	0.31	ug/L			12/21/18 13:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 13:33	1
1,1-Dichloroethane	1.9		1.0	0.38	ug/L			12/21/18 13:33	1
1,1-Dichloroethene	4.2		1.0	0.29	ug/L			12/21/18 13:33	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 13:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 13:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 13:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 13:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 13:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 13:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 13:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 13:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 13:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 13:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 13:33	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 13:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 13:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 13:33	1
Acetone	6.3 J		10	3.0	ug/L			12/21/18 13:33	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 13:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 13:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 13:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 13:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 13:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 13:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 13:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 13:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 13:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 13:33	1
cis-1,2-Dichloroethene	18		1.0	0.81	ug/L			12/21/18 13:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 13:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 13:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 13:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 13:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 13:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 13:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 13:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 13:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 13:33	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 13:33	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 13:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 13:33	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 13:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 13:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 13:33	1
Trichloroethene	21		1.0	0.46	ug/L			12/21/18 13:33	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-147056-18

Date Collected: 12/19/18 12:53

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 13:33	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 13:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120					12/21/18 13:33	1
4-Bromofluorobenzene (Surr)	101		73 - 120					12/21/18 13:33	1
Dibromofluoromethane (Surr)	99		75 - 123					12/21/18 13:33	1
Toluene-d8 (Surr)	99		80 - 120					12/21/18 13:33	1

Client Sample ID: 4009-27I

Lab Sample ID: 480-147056-19

Date Collected: 12/19/18 12:55

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 13:56	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 13:56	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 13:56	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 13:56	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 13:56	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 13:56	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 13:56	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 13:56	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 13:56	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 13:56	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 13:56	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 13:56	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 13:56	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 13:56	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 13:56	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 13:56	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 13:56	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 13:56	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 13:56	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 13:56	1
Acetone	10	U	10	3.0	ug/L			12/21/18 13:56	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 13:56	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 13:56	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 13:56	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 13:56	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 13:56	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 13:56	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 13:56	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 13:56	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 13:56	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 13:56	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 13:56	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 13:56	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 13:56	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-27I

Date Collected: 12/19/18 12:55

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-19

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 13:56	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 13:56	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 13:56	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 13:56	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 13:56	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 13:56	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 13:56	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 13:56	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 13:56	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 13:56	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 13:56	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 13:56	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 13:56	1
Trichloroethene	2.2		1.0	0.46	ug/L			12/21/18 13:56	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 13:56	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 13:56	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/21/18 13:56	1
4-Bromofluorobenzene (Surr)	105		73 - 120		12/21/18 13:56	1
Dibromofluoromethane (Surr)	96		75 - 123		12/21/18 13:56	1
Toluene-d8 (Surr)	100		80 - 120		12/21/18 13:56	1

Client Sample ID: 4009-27D

Date Collected: 12/19/18 12:57

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-20

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 14:19	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 14:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 14:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 14:19	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 14:19	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 14:19	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 14:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 14:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 14:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 14:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 14:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 14:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 14:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 14:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 14:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 14:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 14:19	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 14:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 14:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 14:19	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-27D

Lab Sample ID: 480-147056-20

Date Collected: 12/19/18 12:57

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	5.0	J	10	3.0	ug/L			12/21/18 14:19	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 14:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 14:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 14:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 14:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 14:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 14:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 14:19	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 14:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 14:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 14:19	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 14:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 14:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 14:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 14:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 14:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 14:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 14:19	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 14:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 14:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 14:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 14:19	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 14:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 14:19	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 14:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 14:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 14:19	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 14:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 14:19	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 14:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 14:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		12/21/18 14:19	1
4-Bromofluorobenzene (Surr)	99		73 - 120		12/21/18 14:19	1
Dibromofluoromethane (Surr)	95		75 - 123		12/21/18 14:19	1
Toluene-d8 (Surr)	99		80 - 120		12/21/18 14:19	1

Client Sample ID: 4009-28

Lab Sample ID: 480-147056-21

Date Collected: 12/19/18 10:00

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	2.5		1.0	0.82	ug/L			12/21/18 14:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 14:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 14:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 14:43	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 14:43	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 14:43	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-28

Date Collected: 12/19/18 10:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-21

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 14:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 14:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 14:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 14:43	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 14:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 14:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 14:43	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 14:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 14:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 14:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 14:43	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 14:43	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 14:43	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 14:43	1
Acetone	10	U	10	3.0	ug/L			12/21/18 14:43	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 14:43	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 14:43	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 14:43	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 14:43	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 14:43	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 14:43	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 14:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 14:43	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 14:43	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 14:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 14:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 14:43	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 14:43	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 14:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 14:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 14:43	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 14:43	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 14:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 14:43	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 14:43	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 14:43	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 14:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 14:43	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 14:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 14:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 14:43	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 14:43	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 14:43	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 14:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 14:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/21/18 14:43	1
4-Bromofluorobenzene (Surr)	104		73 - 120		12/21/18 14:43	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-28

Date Collected: 12/19/18 10:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-21

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 14:43	1
Toluene-d8 (Surr)	100		80 - 120		12/21/18 14:43	1

Client Sample ID: 4009-29S

Date Collected: 12/19/18 12:25

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-22

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1100	E	10	8.2	ug/L			12/21/18 15:06	10
1,1,1,2-Tetrachloroethane	10	U	10	2.1	ug/L			12/21/18 15:06	10
1,1,1,2-Trichloro-1,2,2-trifluoroethane	10	U	10	3.1	ug/L			12/21/18 15:06	10
1,1,1,2-Trichloroethane	10	U	10	2.3	ug/L			12/21/18 15:06	10
1,1-Dichloroethane	95		10	3.8	ug/L			12/21/18 15:06	10
1,1-Dichloroethene	85		10	2.9	ug/L			12/21/18 15:06	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			12/21/18 15:06	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			12/21/18 15:06	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			12/21/18 15:06	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			12/21/18 15:06	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			12/21/18 15:06	10
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			12/21/18 15:06	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			12/21/18 15:06	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			12/21/18 15:06	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			12/21/18 15:06	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			12/21/18 15:06	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			12/21/18 15:06	10
2-Butanone (MEK)	100	U	100	13	ug/L			12/21/18 15:06	10
2-Hexanone	50	U	50	12	ug/L			12/21/18 15:06	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			12/21/18 15:06	10
Acetone	100	U	100	30	ug/L			12/21/18 15:06	10
Benzene	10	U	10	4.1	ug/L			12/21/18 15:06	10
Bromodichloromethane	10	U	10	3.9	ug/L			12/21/18 15:06	10
Bromoform	10	U	10	2.6	ug/L			12/21/18 15:06	10
Bromomethane	10	U	10	6.9	ug/L			12/21/18 15:06	10
Carbon disulfide	10	U	10	1.9	ug/L			12/21/18 15:06	10
Carbon tetrachloride	10	U	10	2.7	ug/L			12/21/18 15:06	10
Chlorobenzene	10	U	10	7.5	ug/L			12/21/18 15:06	10
Chloroethane	10	U	10	3.2	ug/L			12/21/18 15:06	10
Chloroform	10	U	10	3.4	ug/L			12/21/18 15:06	10
Chloromethane	10	U	10	3.5	ug/L			12/21/18 15:06	10
cis-1,2-Dichloroethene	430		10	8.1	ug/L			12/21/18 15:06	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			12/21/18 15:06	10
Cyclohexane	10	U	10	1.8	ug/L			12/21/18 15:06	10
Dibromochloromethane	10	U	10	3.2	ug/L			12/21/18 15:06	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			12/21/18 15:06	10
Ethylbenzene	10	U	10	7.4	ug/L			12/21/18 15:06	10
Isopropylbenzene	10	U	10	7.9	ug/L			12/21/18 15:06	10
Methyl acetate	25	U	25	13	ug/L			12/21/18 15:06	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			12/21/18 15:06	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-147056-22

Date Collected: 12/19/18 12:25

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	10	U	10	1.6	ug/L			12/21/18 15:06	10
Methylene Chloride	10	U	10	4.4	ug/L			12/21/18 15:06	10
Styrene	10	U	10	7.3	ug/L			12/21/18 15:06	10
Tetrachloroethene	10	U	10	3.6	ug/L			12/21/18 15:06	10
Toluene	10	U	10	5.1	ug/L			12/21/18 15:06	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			12/21/18 15:06	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			12/21/18 15:06	10
Trichloroethene	220		10	4.6	ug/L			12/21/18 15:06	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			12/21/18 15:06	10
Vinyl chloride	120		10	9.0	ug/L			12/21/18 15:06	10
Xylenes, Total	20	U	20	6.6	ug/L			12/21/18 15:06	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/21/18 15:06	10
4-Bromofluorobenzene (Surr)	103		73 - 120		12/21/18 15:06	10
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 15:06	10
Toluene-d8 (Surr)	101		80 - 120		12/21/18 15:06	10

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1000		20	16	ug/L			12/21/18 22:00	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			12/21/18 22:00	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2	ug/L			12/21/18 22:00	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			12/21/18 22:00	20
1,1-Dichloroethane	93		20	7.6	ug/L			12/21/18 22:00	20
1,1-Dichloroethene	79		20	5.8	ug/L			12/21/18 22:00	20
1,2,3-Trimethylbenzene	20	U	20	5.2	ug/L			12/21/18 22:00	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			12/21/18 22:00	20
1,2,4-Trimethylbenzene	20	U	20	15	ug/L			12/21/18 22:00	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			12/21/18 22:00	20
1,2-Dibromoethane	20	U	20	15	ug/L			12/21/18 22:00	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			12/21/18 22:00	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			12/21/18 22:00	20
1,2-Dichloropropane	20	U	20	14	ug/L			12/21/18 22:00	20
1,3,5-Trimethylbenzene	20	U	20	15	ug/L			12/21/18 22:00	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			12/21/18 22:00	20
1,4-Dichlorobenzene	20	U	20	17	ug/L			12/21/18 22:00	20
2-Butanone (MEK)	200	U	200	26	ug/L			12/21/18 22:00	20
2-Hexanone	100	U	100	25	ug/L			12/21/18 22:00	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			12/21/18 22:00	20
Acetone	200	U	200	60	ug/L			12/21/18 22:00	20
Benzene	20	U	20	8.2	ug/L			12/21/18 22:00	20
Bromodichloromethane	20	U	20	7.8	ug/L			12/21/18 22:00	20
Bromoform	20	U	20	5.2	ug/L			12/21/18 22:00	20
Bromomethane	20	U	20	14	ug/L			12/21/18 22:00	20
Carbon disulfide	20	U	20	3.8	ug/L			12/21/18 22:00	20
Carbon tetrachloride	20	U	20	5.4	ug/L			12/21/18 22:00	20
Chlorobenzene	20	U	20	15	ug/L			12/21/18 22:00	20
Chloroethane	20	U	20	6.4	ug/L			12/21/18 22:00	20
Chloroform	20	U	20	6.8	ug/L			12/21/18 22:00	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-147056-22

Date Collected: 12/19/18 12:25

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	20	U	20	7.0	ug/L			12/21/18 22:00	20
cis-1,2-Dichloroethene	430		20	16	ug/L			12/21/18 22:00	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			12/21/18 22:00	20
Cyclohexane	20	U	20	3.6	ug/L			12/21/18 22:00	20
Dibromochloromethane	20	U	20	6.4	ug/L			12/21/18 22:00	20
Dichlorodifluoromethane	20	U	20	14	ug/L			12/21/18 22:00	20
Ethylbenzene	20	U	20	15	ug/L			12/21/18 22:00	20
Isopropylbenzene	20	U	20	16	ug/L			12/21/18 22:00	20
Methyl acetate	50	U	50	26	ug/L			12/21/18 22:00	20
Methyl tert-butyl ether	20	U	20	3.2	ug/L			12/21/18 22:00	20
Methylcyclohexane	20	U	20	3.2	ug/L			12/21/18 22:00	20
Methylene Chloride	20	U	20	8.8	ug/L			12/21/18 22:00	20
Styrene	20	U	20	15	ug/L			12/21/18 22:00	20
Tetrachloroethene	20	U	20	7.2	ug/L			12/21/18 22:00	20
Toluene	20	U	20	10	ug/L			12/21/18 22:00	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			12/21/18 22:00	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			12/21/18 22:00	20
Trichloroethene	210		20	9.2	ug/L			12/21/18 22:00	20
Trichlorofluoromethane	20	U	20	18	ug/L			12/21/18 22:00	20
Vinyl chloride	110		20	18	ug/L			12/21/18 22:00	20
Xylenes, Total	40	U	40	13	ug/L			12/21/18 22:00	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		12/21/18 22:00	20
4-Bromofluorobenzene (Surr)	104		73 - 120		12/21/18 22:00	20
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 22:00	20
Toluene-d8 (Surr)	101		80 - 120		12/21/18 22:00	20

Client Sample ID: 4009-29I

Lab Sample ID: 480-147056-23

Date Collected: 12/19/18 12:29

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	950		20	16	ug/L			12/21/18 15:29	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			12/21/18 15:29	20
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	20	6.2	ug/L			12/21/18 15:29	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			12/21/18 15:29	20
1,1-Dichloroethane	72		20	7.6	ug/L			12/21/18 15:29	20
1,1-Dichloroethene	79		20	5.8	ug/L			12/21/18 15:29	20
1,2,3-Trimethylbenzene	20	U	20	5.2	ug/L			12/21/18 15:29	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			12/21/18 15:29	20
1,2,4-Trimethylbenzene	20	U	20	15	ug/L			12/21/18 15:29	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			12/21/18 15:29	20
1,2-Dibromoethane	20	U	20	15	ug/L			12/21/18 15:29	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			12/21/18 15:29	20
1,2-Dichloroethane	20	U	20	4.2	ug/L			12/21/18 15:29	20
1,2-Dichloropropane	20	U	20	14	ug/L			12/21/18 15:29	20
1,3,5-Trimethylbenzene	20	U	20	15	ug/L			12/21/18 15:29	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			12/21/18 15:29	20

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29I

Date Collected: 12/19/18 12:29

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-23

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	20	U	20	17	ug/L			12/21/18 15:29	20
2-Butanone (MEK)	200	U	200	26	ug/L			12/21/18 15:29	20
2-Hexanone	100	U	100	25	ug/L			12/21/18 15:29	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			12/21/18 15:29	20
Acetone	200	U	200	60	ug/L			12/21/18 15:29	20
Benzene	20	U	20	8.2	ug/L			12/21/18 15:29	20
Bromodichloromethane	20	U	20	7.8	ug/L			12/21/18 15:29	20
Bromoform	20	U	20	5.2	ug/L			12/21/18 15:29	20
Bromomethane	20	U	20	14	ug/L			12/21/18 15:29	20
Carbon disulfide	20	U	20	3.8	ug/L			12/21/18 15:29	20
Carbon tetrachloride	20	U	20	5.4	ug/L			12/21/18 15:29	20
Chlorobenzene	20	U	20	15	ug/L			12/21/18 15:29	20
Chloroethane	20	U	20	6.4	ug/L			12/21/18 15:29	20
Chloroform	20	U	20	6.8	ug/L			12/21/18 15:29	20
Chloromethane	20	U	20	7.0	ug/L			12/21/18 15:29	20
cis-1,2-Dichloroethene	350		20	16	ug/L			12/21/18 15:29	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			12/21/18 15:29	20
Cyclohexane	20	U	20	3.6	ug/L			12/21/18 15:29	20
Dibromochloromethane	20	U	20	6.4	ug/L			12/21/18 15:29	20
Dichlorodifluoromethane	20	U	20	14	ug/L			12/21/18 15:29	20
Ethylbenzene	20	U	20	15	ug/L			12/21/18 15:29	20
Isopropylbenzene	20	U	20	16	ug/L			12/21/18 15:29	20
Methyl acetate	50	U	50	26	ug/L			12/21/18 15:29	20
Methyl tert-butyl ether	20	U	20	3.2	ug/L			12/21/18 15:29	20
Methylcyclohexane	20	U	20	3.2	ug/L			12/21/18 15:29	20
Methylene Chloride	20	U	20	8.8	ug/L			12/21/18 15:29	20
Styrene	20	U	20	15	ug/L			12/21/18 15:29	20
Tetrachloroethene	20	U	20	7.2	ug/L			12/21/18 15:29	20
Toluene	20	U	20	10	ug/L			12/21/18 15:29	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			12/21/18 15:29	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			12/21/18 15:29	20
Trichloroethene	330		20	9.2	ug/L			12/21/18 15:29	20
Trichlorofluoromethane	20	U	20	18	ug/L			12/21/18 15:29	20
Vinyl chloride	68		20	18	ug/L			12/21/18 15:29	20
Xylenes, Total	40	U	40	13	ug/L			12/21/18 15:29	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		12/21/18 15:29	20
4-Bromofluorobenzene (Surr)	101		73 - 120		12/21/18 15:29	20
Dibromofluoromethane (Surr)	104		75 - 123		12/21/18 15:29	20
Toluene-d8 (Surr)	100		80 - 120		12/21/18 15:29	20

Client Sample ID: 4009-29D

Date Collected: 12/19/18 12:33

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-24

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	56		1.0	0.82	ug/L			12/21/18 22:23	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 22:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-147056-24

Date Collected: 12/19/18 12:33

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 22:23	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 22:23	1
1,1-Dichloroethane	14		1.0	0.38	ug/L			12/21/18 22:23	1
1,1-Dichloroethene	3.7		1.0	0.29	ug/L			12/21/18 22:23	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 22:23	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 22:23	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 22:23	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 22:23	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 22:23	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 22:23	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 22:23	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 22:23	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 22:23	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 22:23	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 22:23	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 22:23	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 22:23	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 22:23	1
Acetone	3.9 J		10	3.0	ug/L			12/21/18 22:23	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 22:23	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 22:23	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 22:23	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 22:23	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 22:23	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 22:23	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 22:23	1
Chloroethane	2.9		1.0	0.32	ug/L			12/21/18 22:23	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 22:23	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 22:23	1
cis-1,2-Dichloroethene	20		1.0	0.81	ug/L			12/21/18 22:23	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 22:23	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 22:23	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 22:23	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 22:23	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 22:23	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 22:23	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 22:23	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 22:23	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 22:23	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 22:23	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 22:23	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 22:23	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 22:23	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 22:23	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 22:23	1
Trichloroethene	12		1.0	0.46	ug/L			12/21/18 22:23	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 22:23	1
Vinyl chloride	15		1.0	0.90	ug/L			12/21/18 22:23	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 22:23	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-29D

Date Collected: 12/19/18 12:33

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-24

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		12/21/18 22:23	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/21/18 22:23	1
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 22:23	1
Toluene-d8 (Surr)	100		80 - 120		12/21/18 22:23	1

Client Sample ID: 4009-30

Date Collected: 12/19/18 11:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-25

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 16:15	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 16:15	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 16:15	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 16:15	1
1,1-Dichloroethane	1.1		1.0	0.38	ug/L			12/21/18 16:15	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 16:15	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 16:15	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 16:15	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 16:15	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 16:15	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 16:15	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 16:15	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 16:15	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 16:15	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 16:15	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 16:15	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 16:15	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 16:15	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 16:15	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 16:15	1
Acetone	10	U	10	3.0	ug/L			12/21/18 16:15	1
Benzene	0.87	J	1.0	0.41	ug/L			12/21/18 16:15	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 16:15	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 16:15	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 16:15	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 16:15	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 16:15	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 16:15	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 16:15	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 16:15	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 16:15	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 16:15	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 16:15	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 16:15	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 16:15	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 16:15	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 16:15	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 16:15	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 16:15	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-30

Date Collected: 12/19/18 11:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-25

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 16:15	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 16:15	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 16:15	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 16:15	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 16:15	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 16:15	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 16:15	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 16:15	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 16:15	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 16:15	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 16:15	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 16:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/21/18 16:15	1
4-Bromofluorobenzene (Surr)	104		73 - 120		12/21/18 16:15	1
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 16:15	1
Toluene-d8 (Surr)	101		80 - 120		12/21/18 16:15	1

Client Sample ID: 4009-30A

Date Collected: 12/19/18 11:38

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-26

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 22:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 22:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 22:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 22:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 22:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 22:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 22:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 22:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 22:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 22:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 22:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 22:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 22:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 22:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 22:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 22:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 22:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 22:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 22:45	1
Acetone	10	U	10	3.0	ug/L			12/21/18 22:45	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 22:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 22:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 22:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 22:45	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-30A

Date Collected: 12/19/18 11:38

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-26

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 22:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 22:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 22:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 22:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 22:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 22:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 22:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 22:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 22:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 22:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 22:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 22:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 22:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 22:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 22:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 22:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 22:45	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 22:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 22:45	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 22:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 22:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 22:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 22:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 22:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 22:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 22:45	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		77 - 120		12/21/18 22:45	1
4-Bromofluorobenzene (Surr)	100		73 - 120		12/21/18 22:45	1
Dibromofluoromethane (Surr)	101		75 - 123		12/21/18 22:45	1
Toluene-d8 (Surr)	101		80 - 120		12/21/18 22:45	1

Client Sample ID: DUP1

Date Collected: 12/19/18 00:20

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-27

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	88		1.0	0.82	ug/L			12/21/18 23:08	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 23:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	0.83	J	1.0	0.31	ug/L			12/21/18 23:08	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 23:08	1
1,1-Dichloroethane	13		1.0	0.38	ug/L			12/21/18 23:08	1
1,1-Dichloroethene	4.2		1.0	0.29	ug/L			12/21/18 23:08	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 23:08	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 23:08	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 23:08	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 23:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: DUP1

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 23:08	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 23:08	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 23:08	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 23:08	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 23:08	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 23:08	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 23:08	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 23:08	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 23:08	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 23:08	1
Acetone	5.8	J	10	3.0	ug/L			12/21/18 23:08	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 23:08	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 23:08	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 23:08	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 23:08	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 23:08	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 23:08	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 23:08	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 23:08	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 23:08	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 23:08	1
cis-1,2-Dichloroethene	15		1.0	0.81	ug/L			12/21/18 23:08	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 23:08	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 23:08	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 23:08	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 23:08	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 23:08	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 23:08	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 23:08	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 23:08	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 23:08	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 23:08	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 23:08	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 23:08	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 23:08	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 23:08	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 23:08	1
Trichloroethene	13		1.0	0.46	ug/L			12/21/18 23:08	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 23:08	1
Vinyl chloride	38		1.0	0.90	ug/L			12/21/18 23:08	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 23:08	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		12/21/18 23:08	1
4-Bromofluorobenzene (Surr)	102		73 - 120		12/21/18 23:08	1
Dibromofluoromethane (Surr)	101		75 - 123		12/21/18 23:08	1
Toluene-d8 (Surr)	101		80 - 120		12/21/18 23:08	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: DUP2

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-28

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	910	E	1.0	0.82	ug/L			12/21/18 23:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 23:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	8.1		1.0	0.31	ug/L			12/21/18 23:32	1
1,1,2-Trichloroethane	0.57	J	1.0	0.23	ug/L			12/21/18 23:32	1
1,1-Dichloroethane	62		1.0	0.38	ug/L			12/21/18 23:32	1
1,1-Dichloroethene	65		1.0	0.29	ug/L			12/21/18 23:32	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 23:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 23:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 23:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 23:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 23:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 23:32	1
1,2-Dichloroethane	0.24	J	1.0	0.21	ug/L			12/21/18 23:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 23:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 23:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 23:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 23:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 23:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 23:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 23:32	1
Acetone	5.6	J	10	3.0	ug/L			12/21/18 23:32	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 23:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 23:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 23:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 23:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 23:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 23:32	1
Chlorobenzene	1.2		1.0	0.75	ug/L			12/21/18 23:32	1
Chloroethane	2.4		1.0	0.32	ug/L			12/21/18 23:32	1
Chloroform	0.49	J	1.0	0.34	ug/L			12/21/18 23:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 23:32	1
cis-1,2-Dichloroethene	320	E	1.0	0.81	ug/L			12/21/18 23:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 23:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 23:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 23:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 23:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 23:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 23:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 23:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 23:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 23:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 23:32	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 23:32	1
Tetrachloroethene	1.5		1.0	0.36	ug/L			12/21/18 23:32	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 23:32	1
trans-1,2-Dichloroethene	1.1		1.0	0.90	ug/L			12/21/18 23:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 23:32	1
Trichloroethene	300	E	1.0	0.46	ug/L			12/21/18 23:32	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: DUP2

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 23:32	1
Vinyl chloride	60		1.0	0.90	ug/L			12/21/18 23:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 23:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					12/21/18 23:32	1
4-Bromofluorobenzene (Surr)	103		73 - 120					12/21/18 23:32	1
Dibromofluoromethane (Surr)	103		75 - 123					12/21/18 23:32	1
Toluene-d8 (Surr)	102		80 - 120					12/21/18 23:32	1

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	890		10	8.2	ug/L			12/22/18 11:35	10
1,1,2,2-Tetrachloroethane	10	U	10	2.1	ug/L			12/22/18 11:35	10
1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	J	10	3.1	ug/L			12/22/18 11:35	10
1,1,1,2-Trichloroethane	10	U	10	2.3	ug/L			12/22/18 11:35	10
1,1-Dichloroethane	63		10	3.8	ug/L			12/22/18 11:35	10
1,1-Dichloroethene	63		10	2.9	ug/L			12/22/18 11:35	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			12/22/18 11:35	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			12/22/18 11:35	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			12/22/18 11:35	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			12/22/18 11:35	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			12/22/18 11:35	10
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			12/22/18 11:35	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			12/22/18 11:35	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			12/22/18 11:35	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			12/22/18 11:35	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			12/22/18 11:35	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			12/22/18 11:35	10
2-Butanone (MEK)	100	U	100	13	ug/L			12/22/18 11:35	10
2-Hexanone	50	U	50	12	ug/L			12/22/18 11:35	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			12/22/18 11:35	10
Acetone	100	U	100	30	ug/L			12/22/18 11:35	10
Benzene	10	U	10	4.1	ug/L			12/22/18 11:35	10
Bromodichloromethane	10	U	10	3.9	ug/L			12/22/18 11:35	10
Bromoform	10	U	10	2.6	ug/L			12/22/18 11:35	10
Bromomethane	10	U	10	6.9	ug/L			12/22/18 11:35	10
Carbon disulfide	10	U	10	1.9	ug/L			12/22/18 11:35	10
Carbon tetrachloride	10	U	10	2.7	ug/L			12/22/18 11:35	10
Chlorobenzene	10	U	10	7.5	ug/L			12/22/18 11:35	10
Chloroethane	10	U	10	3.2	ug/L			12/22/18 11:35	10
Chloroform	10	U	10	3.4	ug/L			12/22/18 11:35	10
Chloromethane	10	U	10	3.5	ug/L			12/22/18 11:35	10
cis-1,2-Dichloroethene	320		10	8.1	ug/L			12/22/18 11:35	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			12/22/18 11:35	10
Cyclohexane	10	U	10	1.8	ug/L			12/22/18 11:35	10
Dibromochloromethane	10	U	10	3.2	ug/L			12/22/18 11:35	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			12/22/18 11:35	10
Ethylbenzene	10	U	10	7.4	ug/L			12/22/18 11:35	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: DUP2

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-28

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Isopropylbenzene	10	U	10	7.9	ug/L			12/22/18 11:35	10
Methyl acetate	25	U	25	13	ug/L			12/22/18 11:35	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			12/22/18 11:35	10
Methylcyclohexane	10	U	10	1.6	ug/L			12/22/18 11:35	10
Methylene Chloride	10	U	10	4.4	ug/L			12/22/18 11:35	10
Styrene	10	U	10	7.3	ug/L			12/22/18 11:35	10
Tetrachloroethene	10	U	10	3.6	ug/L			12/22/18 11:35	10
Toluene	10	U	10	5.1	ug/L			12/22/18 11:35	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			12/22/18 11:35	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			12/22/18 11:35	10
Trichloroethene	300		10	4.6	ug/L			12/22/18 11:35	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			12/22/18 11:35	10
Vinyl chloride	66		10	9.0	ug/L			12/22/18 11:35	10
Xylenes, Total	20	U	20	6.6	ug/L			12/22/18 11:35	10
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					12/22/18 11:35	10
4-Bromofluorobenzene (Surr)	100		73 - 120					12/22/18 11:35	10
Dibromofluoromethane (Surr)	100		75 - 123					12/22/18 11:35	10
Toluene-d8 (Surr)	100		80 - 120					12/22/18 11:35	10

Client Sample ID: 4009-26

Date Collected: 12/19/18 13:37

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-29

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	500	E	5.0	4.1	ug/L			12/22/18 11:58	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			12/22/18 11:58	5
1,1,2-Trichloro-1,2,2-trifluoroethane	12		5.0	1.6	ug/L			12/22/18 11:58	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			12/22/18 11:58	5
1,1-Dichloroethane	45		5.0	1.9	ug/L			12/22/18 11:58	5
1,1-Dichloroethene	16		5.0	1.5	ug/L			12/22/18 11:58	5
1,2,3-Trimethylbenzene	5.0	U	5.0	1.3	ug/L			12/22/18 11:58	5
1,2,4-Trichlorobenzene	5.0	U	5.0	2.1	ug/L			12/22/18 11:58	5
1,2,4-Trimethylbenzene	5.0	U	5.0	3.8	ug/L			12/22/18 11:58	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0	ug/L			12/22/18 11:58	5
1,2-Dibromoethane	5.0	U	5.0	3.7	ug/L			12/22/18 11:58	5
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			12/22/18 11:58	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			12/22/18 11:58	5
1,2-Dichloropropane	5.0	U	5.0	3.6	ug/L			12/22/18 11:58	5
1,3,5-Trimethylbenzene	5.0	U	5.0	3.9	ug/L			12/22/18 11:58	5
1,3-Dichlorobenzene	5.0	U	5.0	3.9	ug/L			12/22/18 11:58	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			12/22/18 11:58	5
2-Butanone (MEK)	50	U	50	6.6	ug/L			12/22/18 11:58	5
2-Hexanone	25	U	25	6.2	ug/L			12/22/18 11:58	5
4-Methyl-2-pentanone (MIBK)	25	U	25	11	ug/L			12/22/18 11:58	5
Acetone	50	U	50	15	ug/L			12/22/18 11:58	5
Benzene	5.0	U	5.0	2.1	ug/L			12/22/18 11:58	5

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-26

Lab Sample ID: 480-147056-29

Date Collected: 12/19/18 13:37

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	5.0	U	5.0	2.0	ug/L			12/22/18 11:58	5
Bromoform	5.0	U	5.0	1.3	ug/L			12/22/18 11:58	5
Bromomethane	5.0	U	5.0	3.5	ug/L			12/22/18 11:58	5
Carbon disulfide	5.0	U	5.0	0.95	ug/L			12/22/18 11:58	5
Carbon tetrachloride	5.0	U	5.0	1.4	ug/L			12/22/18 11:58	5
Chlorobenzene	5.0	U	5.0	3.8	ug/L			12/22/18 11:58	5
Chloroethane	5.0	U	5.0	1.6	ug/L			12/22/18 11:58	5
Chloroform	5.0	U	5.0	1.7	ug/L			12/22/18 11:58	5
Chloromethane	5.0	U	5.0	1.8	ug/L			12/22/18 11:58	5
cis-1,2-Dichloroethene	190		5.0	4.1	ug/L			12/22/18 11:58	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.8	ug/L			12/22/18 11:58	5
Cyclohexane	5.0	U	5.0	0.90	ug/L			12/22/18 11:58	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			12/22/18 11:58	5
Dichlorodifluoromethane	5.0	U	5.0	3.4	ug/L			12/22/18 11:58	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			12/22/18 11:58	5
Isopropylbenzene	5.0	U	5.0	4.0	ug/L			12/22/18 11:58	5
Methyl acetate	13	U	13	6.5	ug/L			12/22/18 11:58	5
Methyl tert-butyl ether	5.0	U	5.0	0.80	ug/L			12/22/18 11:58	5
Methylcyclohexane	5.0	U	5.0	0.80	ug/L			12/22/18 11:58	5
Methylene Chloride	5.0	U	5.0	2.2	ug/L			12/22/18 11:58	5
Styrene	5.0	U	5.0	3.7	ug/L			12/22/18 11:58	5
Tetrachloroethene	1.8 J		5.0	1.8	ug/L			12/22/18 11:58	5
Toluene	5.0	U	5.0	2.6	ug/L			12/22/18 11:58	5
trans-1,2-Dichloroethene	5.0	U	5.0	4.5	ug/L			12/22/18 11:58	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.9	ug/L			12/22/18 11:58	5
Trichloroethene	120		5.0	2.3	ug/L			12/22/18 11:58	5
Trichlorofluoromethane	5.0	U	5.0	4.4	ug/L			12/22/18 11:58	5
Vinyl chloride	13		5.0	4.5	ug/L			12/22/18 11:58	5
Xylenes, Total	10	U	10	3.3	ug/L			12/22/18 11:58	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/22/18 11:58	5
4-Bromofluorobenzene (Surr)	103		73 - 120		12/22/18 11:58	5
Dibromofluoromethane (Surr)	102		75 - 123		12/22/18 11:58	5
Toluene-d8 (Surr)	102		80 - 120		12/22/18 11:58	5

Method: 8260C - Volatile Organic Compounds by GC/MS - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	530		10	8.2	ug/L			12/24/18 14:02	10
1,1,2,2-Tetrachloroethane	10	U	10	2.1	ug/L			12/24/18 14:02	10
1,1,2-Trichloro-1,2,2-trifluoroethane	12		10	3.1	ug/L			12/24/18 14:02	10
1,1,2-Trichloroethane	10	U	10	2.3	ug/L			12/24/18 14:02	10
1,1-Dichloroethane	49		10	3.8	ug/L			12/24/18 14:02	10
1,1-Dichloroethene	19		10	2.9	ug/L			12/24/18 14:02	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			12/24/18 14:02	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			12/24/18 14:02	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			12/24/18 14:02	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			12/24/18 14:02	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			12/24/18 14:02	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-26

Lab Sample ID: 480-147056-29

Date Collected: 12/19/18 13:37

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS - DL (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			12/24/18 14:02	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			12/24/18 14:02	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			12/24/18 14:02	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			12/24/18 14:02	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			12/24/18 14:02	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			12/24/18 14:02	10
2-Butanone (MEK)	100	U	100	13	ug/L			12/24/18 14:02	10
2-Hexanone	50	U	50	12	ug/L			12/24/18 14:02	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			12/24/18 14:02	10
Acetone	100	U	100	30	ug/L			12/24/18 14:02	10
Benzene	10	U	10	4.1	ug/L			12/24/18 14:02	10
Bromodichloromethane	10	U	10	3.9	ug/L			12/24/18 14:02	10
Bromoform	10	U	10	2.6	ug/L			12/24/18 14:02	10
Bromomethane	10	U	10	6.9	ug/L			12/24/18 14:02	10
Carbon disulfide	10	U	10	1.9	ug/L			12/24/18 14:02	10
Carbon tetrachloride	10	U	10	2.7	ug/L			12/24/18 14:02	10
Chlorobenzene	10	U	10	7.5	ug/L			12/24/18 14:02	10
Chloroethane	10	U	10	3.2	ug/L			12/24/18 14:02	10
Chloroform	10	U	10	3.4	ug/L			12/24/18 14:02	10
Chloromethane	10	U	10	3.5	ug/L			12/24/18 14:02	10
cis-1,2-Dichloroethene	200		10	8.1	ug/L			12/24/18 14:02	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			12/24/18 14:02	10
Cyclohexane	10	U	10	1.8	ug/L			12/24/18 14:02	10
Dibromochloromethane	10	U	10	3.2	ug/L			12/24/18 14:02	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			12/24/18 14:02	10
Ethylbenzene	10	U	10	7.4	ug/L			12/24/18 14:02	10
Isopropylbenzene	10	U	10	7.9	ug/L			12/24/18 14:02	10
Methyl acetate	25	U	25	13	ug/L			12/24/18 14:02	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			12/24/18 14:02	10
Methylcyclohexane	10	U	10	1.6	ug/L			12/24/18 14:02	10
Methylene Chloride	10	U	10	4.4	ug/L			12/24/18 14:02	10
Styrene	10	U	10	7.3	ug/L			12/24/18 14:02	10
Tetrachloroethene	10	U	10	3.6	ug/L			12/24/18 14:02	10
Toluene	10	U	10	5.1	ug/L			12/24/18 14:02	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			12/24/18 14:02	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			12/24/18 14:02	10
Trichloroethene	130		10	4.6	ug/L			12/24/18 14:02	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			12/24/18 14:02	10
Vinyl chloride	14		10	9.0	ug/L			12/24/18 14:02	10
Xylenes, Total	20	U	20	6.6	ug/L			12/24/18 14:02	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	92		77 - 120		12/24/18 14:02	10
4-Bromofluorobenzene (Surr)	104		73 - 120		12/24/18 14:02	10
Dibromofluoromethane (Surr)	96		75 - 123		12/24/18 14:02	10
Toluene-d8 (Surr)	99		80 - 120		12/24/18 14:02	10

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-1

Lab Sample ID: 480-147056-30

Date Collected: 12/19/18 09:50

Matrix: Water

Date Received: 12/20/18 01:00

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	220		4.0	3.3	ug/L			12/22/18 00:18	4
1,1,2,2-Tetrachloroethane	4.0	U	4.0	0.84	ug/L			12/22/18 00:18	4
1,1,2-Trichloro-1,2,2-trifluoroethane	3.2	J	4.0	1.2	ug/L			12/22/18 00:18	4
1,1,2-Trichloroethane	4.0	U	4.0	0.92	ug/L			12/22/18 00:18	4
1,1-Dichloroethane	25		4.0	1.5	ug/L			12/22/18 00:18	4
1,1-Dichloroethene	18		4.0	1.2	ug/L			12/22/18 00:18	4
1,2,3-Trimethylbenzene	4.0	U	4.0	1.0	ug/L			12/22/18 00:18	4
1,2,4-Trichlorobenzene	4.0	U	4.0	1.6	ug/L			12/22/18 00:18	4
1,2,4-Trimethylbenzene	4.0	U	4.0	3.0	ug/L			12/22/18 00:18	4
1,2-Dibromo-3-Chloropropane	4.0	U	4.0	1.6	ug/L			12/22/18 00:18	4
1,2-Dibromoethane	4.0	U	4.0	2.9	ug/L			12/22/18 00:18	4
1,2-Dichlorobenzene	4.0	U	4.0	3.2	ug/L			12/22/18 00:18	4
1,2-Dichloroethane	4.0	U	4.0	0.84	ug/L			12/22/18 00:18	4
1,2-Dichloropropane	4.0	U	4.0	2.9	ug/L			12/22/18 00:18	4
1,3,5-Trimethylbenzene	4.0	U	4.0	3.1	ug/L			12/22/18 00:18	4
1,3-Dichlorobenzene	4.0	U	4.0	3.1	ug/L			12/22/18 00:18	4
1,4-Dichlorobenzene	4.0	U	4.0	3.4	ug/L			12/22/18 00:18	4
2-Butanone (MEK)	40	U	40	5.3	ug/L			12/22/18 00:18	4
2-Hexanone	20	U	20	5.0	ug/L			12/22/18 00:18	4
4-Methyl-2-pentanone (MIBK)	20	U	20	8.4	ug/L			12/22/18 00:18	4
Acetone	40	U	40	12	ug/L			12/22/18 00:18	4
Benzene	4.0	U	4.0	1.6	ug/L			12/22/18 00:18	4
Bromodichloromethane	4.0	U	4.0	1.6	ug/L			12/22/18 00:18	4
Bromoform	4.0	U	4.0	1.0	ug/L			12/22/18 00:18	4
Bromomethane	4.0	U	4.0	2.8	ug/L			12/22/18 00:18	4
Carbon disulfide	4.0	U	4.0	0.76	ug/L			12/22/18 00:18	4
Carbon tetrachloride	4.0	U	4.0	1.1	ug/L			12/22/18 00:18	4
Chlorobenzene	4.0	U	4.0	3.0	ug/L			12/22/18 00:18	4
Chloroethane	4.0	U	4.0	1.3	ug/L			12/22/18 00:18	4
Chloroform	4.0	U	4.0	1.4	ug/L			12/22/18 00:18	4
Chloromethane	4.0	U	4.0	1.4	ug/L			12/22/18 00:18	4
cis-1,2-Dichloroethene	78		4.0	3.2	ug/L			12/22/18 00:18	4
cis-1,3-Dichloropropene	4.0	U	4.0	1.4	ug/L			12/22/18 00:18	4
Cyclohexane	4.0	U	4.0	0.72	ug/L			12/22/18 00:18	4
Dibromochloromethane	4.0	U	4.0	1.3	ug/L			12/22/18 00:18	4
Dichlorodifluoromethane	4.0	U	4.0	2.7	ug/L			12/22/18 00:18	4
Ethylbenzene	4.0	U	4.0	3.0	ug/L			12/22/18 00:18	4
Isopropylbenzene	4.0	U	4.0	3.2	ug/L			12/22/18 00:18	4
Methyl acetate	10	U	10	5.2	ug/L			12/22/18 00:18	4
Methyl tert-butyl ether	4.0	U	4.0	0.64	ug/L			12/22/18 00:18	4
Methylcyclohexane	4.0	U	4.0	0.64	ug/L			12/22/18 00:18	4
Methylene Chloride	4.0	U	4.0	1.8	ug/L			12/22/18 00:18	4
Styrene	4.0	U	4.0	2.9	ug/L			12/22/18 00:18	4
Tetrachloroethene	4.0	U	4.0	1.4	ug/L			12/22/18 00:18	4
Toluene	4.0	U	4.0	2.0	ug/L			12/22/18 00:18	4
trans-1,2-Dichloroethene	4.0	U	4.0	3.6	ug/L			12/22/18 00:18	4
trans-1,3-Dichloropropene	4.0	U	4.0	1.5	ug/L			12/22/18 00:18	4
Trichloroethene	67		4.0	1.8	ug/L			12/22/18 00:18	4

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-1

Date Collected: 12/19/18 09:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-30

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	4.0	U	4.0	3.5	ug/L			12/22/18 00:18	4
Vinyl chloride	4.0	U	4.0	3.6	ug/L			12/22/18 00:18	4
Xylenes, Total	8.0	U	8.0	2.6	ug/L			12/22/18 00:18	4
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120					12/22/18 00:18	4
4-Bromofluorobenzene (Surr)	100		73 - 120					12/22/18 00:18	4
Dibromofluoromethane (Surr)	99		75 - 123					12/22/18 00:18	4
Toluene-d8 (Surr)	98		80 - 120					12/22/18 00:18	4

Client Sample ID: Well 1-3

Date Collected: 12/19/18 10:48

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-31

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/22/18 00:40	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 00:40	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/22/18 00:40	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/18 00:40	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/22/18 00:40	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/18 00:40	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/18 00:40	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/22/18 00:40	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/22/18 00:40	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/22/18 00:40	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/22/18 00:40	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/22/18 00:40	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 00:40	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/22/18 00:40	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/22/18 00:40	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/22/18 00:40	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/22/18 00:40	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/22/18 00:40	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/22/18 00:40	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/22/18 00:40	1
Acetone	10	U	10	3.0	ug/L			12/22/18 00:40	1
Benzene	1.0	U	1.0	0.41	ug/L			12/22/18 00:40	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/22/18 00:40	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/22/18 00:40	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/22/18 00:40	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/22/18 00:40	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/22/18 00:40	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/22/18 00:40	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/22/18 00:40	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/22/18 00:40	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/22/18 00:40	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/22/18 00:40	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/22/18 00:40	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/22/18 00:40	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-3

Date Collected: 12/19/18 10:48

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-31

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/22/18 00:40	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/22/18 00:40	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/22/18 00:40	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/22/18 00:40	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/22/18 00:40	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/18 00:40	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/22/18 00:40	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/22/18 00:40	1
Styrene	1.0	U	1.0	0.73	ug/L			12/22/18 00:40	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/22/18 00:40	1
Toluene	1.0	U	1.0	0.51	ug/L			12/22/18 00:40	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/22/18 00:40	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/22/18 00:40	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/22/18 00:40	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/22/18 00:40	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/22/18 00:40	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/22/18 00:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/22/18 00:40	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/22/18 00:40	1
Dibromofluoromethane (Surr)	98		75 - 123		12/22/18 00:40	1
Toluene-d8 (Surr)	98		80 - 120		12/22/18 00:40	1

Client Sample ID: Well 1-3POST

Date Collected: 12/19/18 10:45

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-32

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/22/18 01:03	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:03	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/22/18 01:03	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/18 01:03	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/22/18 01:03	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/18 01:03	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/18 01:03	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:03	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:03	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/22/18 01:03	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/22/18 01:03	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:03	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:03	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/22/18 01:03	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/22/18 01:03	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/22/18 01:03	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/22/18 01:03	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/22/18 01:03	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/22/18 01:03	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/22/18 01:03	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-3POST

Date Collected: 12/19/18 10:45

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-32

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	10	U	10	3.0	ug/L			12/22/18 01:03	1
Benzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:03	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/22/18 01:03	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/22/18 01:03	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/22/18 01:03	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/22/18 01:03	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/22/18 01:03	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:03	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:03	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/22/18 01:03	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/22/18 01:03	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/22/18 01:03	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/22/18 01:03	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/22/18 01:03	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:03	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/22/18 01:03	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/22/18 01:03	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:03	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/22/18 01:03	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/18 01:03	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/22/18 01:03	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/22/18 01:03	1
Styrene	1.0	U	1.0	0.73	ug/L			12/22/18 01:03	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/22/18 01:03	1
Toluene	1.0	U	1.0	0.51	ug/L			12/22/18 01:03	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/22/18 01:03	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/22/18 01:03	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/22/18 01:03	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/22/18 01:03	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/22/18 01:03	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/22/18 01:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/22/18 01:03	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/22/18 01:03	1
Dibromofluoromethane (Surr)	100		75 - 123		12/22/18 01:03	1
Toluene-d8 (Surr)	100		80 - 120		12/22/18 01:03	1

Client Sample ID: Trip Blank

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-33

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/22/18 01:27	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:27	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/22/18 01:27	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/18 01:27	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/22/18 01:27	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/18 01:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-147056-33

Date Collected: 12/19/18 00:00

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/18 01:27	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:27	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:27	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/22/18 01:27	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/22/18 01:27	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:27	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:27	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/22/18 01:27	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/22/18 01:27	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/22/18 01:27	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/22/18 01:27	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/22/18 01:27	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/22/18 01:27	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/22/18 01:27	1
Acetone	10	U	10	3.0	ug/L			12/22/18 01:27	1
Benzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:27	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/22/18 01:27	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/22/18 01:27	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/22/18 01:27	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/22/18 01:27	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/22/18 01:27	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:27	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:27	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/22/18 01:27	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/22/18 01:27	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/22/18 01:27	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/22/18 01:27	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/22/18 01:27	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:27	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/22/18 01:27	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/22/18 01:27	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:27	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/22/18 01:27	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/18 01:27	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/22/18 01:27	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/22/18 01:27	1
Styrene	1.0	U	1.0	0.73	ug/L			12/22/18 01:27	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/22/18 01:27	1
Toluene	1.0	U	1.0	0.51	ug/L			12/22/18 01:27	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/22/18 01:27	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/22/18 01:27	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/22/18 01:27	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/22/18 01:27	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/22/18 01:27	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/22/18 01:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		12/22/18 01:27	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/22/18 01:27	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Trip Blank

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-33

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	98		75 - 123		12/22/18 01:27	1
Toluene-d8 (Surr)	100		80 - 120		12/22/18 01:27	1

Client Sample ID: 4009-11A

Date Collected: 12/19/18 13:17

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-34

Matrix: Water

Method: 8260C - Volatile Organic Compounds by GC/MS

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/22/18 01:50	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:50	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/22/18 01:50	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/18 01:50	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/22/18 01:50	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/18 01:50	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/18 01:50	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:50	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:50	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/22/18 01:50	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/22/18 01:50	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:50	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 01:50	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/22/18 01:50	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/22/18 01:50	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/22/18 01:50	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/22/18 01:50	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/22/18 01:50	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/22/18 01:50	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/22/18 01:50	1
Acetone	5.9	J	10	3.0	ug/L			12/22/18 01:50	1
Benzene	1.0	U	1.0	0.41	ug/L			12/22/18 01:50	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/22/18 01:50	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/22/18 01:50	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/22/18 01:50	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/22/18 01:50	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/22/18 01:50	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/22/18 01:50	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:50	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/22/18 01:50	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/22/18 01:50	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/22/18 01:50	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/22/18 01:50	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/22/18 01:50	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/22/18 01:50	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/22/18 01:50	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/22/18 01:50	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/22/18 01:50	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/22/18 01:50	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/18 01:50	1

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-11A

Lab Sample ID: 480-147056-34

Date Collected: 12/19/18 13:17

Matrix: Water

Date Received: 12/20/18 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/22/18 01:50	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/22/18 01:50	1
Styrene	1.0	U	1.0	0.73	ug/L			12/22/18 01:50	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/22/18 01:50	1
Toluene	1.0	U	1.0	0.51	ug/L			12/22/18 01:50	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/22/18 01:50	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/22/18 01:50	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/22/18 01:50	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/22/18 01:50	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/22/18 01:50	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/22/18 01:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/22/18 01:50	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/22/18 01:50	1
Dibromofluoromethane (Surr)	103		75 - 123		12/22/18 01:50	1
Toluene-d8 (Surr)	101		80 - 120		12/22/18 01:50	1

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-147056-1	4009-7	94	103	97	103
480-147056-2	4009-8	95	103	102	100
480-147056-2 MS	4009-8	102	105	100	100
480-147056-2 MSD	4009-8	101	106	99	101
480-147056-3	Well 1-2A	98	101	103	101
480-147056-4	4009-9	100	102	98	102
480-147056-5	4009-10	100	105	101	101
480-147056-6	4009-11	99	101	100	100
480-147056-6 - DL	4009-11	95	105	100	100
480-147056-7	4009-12	93	99	101	97
480-147056-8	4009-13	98	103	100	99
480-147056-9	4009-13A	96	104	100	98
480-147056-10	4009-14	97	100	99	99
480-147056-11	4009-15	99	107	101	103
480-147056-12	4009-16	103	100	100	99
480-147056-13	4009-16A	99	102	101	98
480-147056-14	4009-18	96	106	99	103
480-147056-15	4009-19	101	101	103	97
480-147056-16	4009-21	98	107	100	101
480-147056-17	4009-22	96	101	100	98
480-147056-18	4009-27S	93	101	99	99
480-147056-19	4009-27I	95	105	96	100
480-147056-20	4009-27D	94	99	95	99
480-147056-21	4009-28	97	104	99	100
480-147056-22	4009-29S	98	103	99	101
480-147056-22 - DL	4009-29S	94	104	100	101
480-147056-23	4009-29I	92	101	104	100
480-147056-23 MS	4009-29I	97	105	99	99
480-147056-23 MSD	4009-29I	95	104	97	97
480-147056-24	4009-29D	93	100	100	100
480-147056-25	4009-30	97	104	99	101
480-147056-26	4009-30A	93	100	101	101
480-147056-27	DUP1	98	102	101	101
480-147056-28	DUP2	98	103	103	102
480-147056-28 - DL	DUP2	98	100	100	100
480-147056-28 MS	DUP2	96	104	99	99
480-147056-28 MSD	DUP2	96	102	96	100
480-147056-29	4009-26	95	103	102	102
480-147056-29 - DL	4009-26	92	104	96	99
480-147056-29 MS	4009-26	93	103	95	94
480-147056-29 MSD	4009-26	92	108	95	98
480-147056-30	Well 1-1	95	100	99	98
480-147056-31	Well 1-3	97	103	98	98
480-147056-32	Well 1-3POST	95	103	100	100
480-147056-33	Trip Blank	94	101	98	100
480-147056-34	4009-11A	97	103	103	101
LCS 480-451978/5	Lab Control Sample	97	103	95	99
LCS 480-452039/5	Lab Control Sample	99	104	98	100
LCS 480-452195/5	Lab Control Sample	99	103	100	101

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
Lab Sample ID	Client Sample ID	DCA (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
LCS 480-452221/5	Lab Control Sample	101	106	102	102
LCS 480-452309/5	Lab Control Sample	95	105	96	97
MB 480-451978/7	Method Blank	96	101	97	98
MB 480-452039/7	Method Blank	94	103	99	102
MB 480-452195/7	Method Blank	97	103	100	101
MB 480-452221/7	Method Blank	95	101	99	105
MB 480-452309/7	Method Blank	89	108	91	99

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Method: 8260C - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 480-451978/7

Matrix: Water

Analysis Batch: 451978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/20/18 20:34	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 20:34	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/20/18 20:34	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/20/18 20:34	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/20/18 20:34	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/20/18 20:34	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/20/18 20:34	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/20/18 20:34	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/20/18 20:34	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/20/18 20:34	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/20/18 20:34	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/20/18 20:34	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/20/18 20:34	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/20/18 20:34	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/20/18 20:34	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/20/18 20:34	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/20/18 20:34	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/20/18 20:34	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/20/18 20:34	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/20/18 20:34	1
Acetone	10	U	10	3.0	ug/L			12/20/18 20:34	1
Benzene	1.0	U	1.0	0.41	ug/L			12/20/18 20:34	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/20/18 20:34	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/20/18 20:34	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/20/18 20:34	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/20/18 20:34	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/20/18 20:34	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/20/18 20:34	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/20/18 20:34	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/20/18 20:34	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/20/18 20:34	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/20/18 20:34	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/20/18 20:34	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/20/18 20:34	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/20/18 20:34	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/20/18 20:34	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/20/18 20:34	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/20/18 20:34	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/20/18 20:34	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/20/18 20:34	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/20/18 20:34	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/20/18 20:34	1
Styrene	1.0	U	1.0	0.73	ug/L			12/20/18 20:34	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/20/18 20:34	1
Toluene	1.0	U	1.0	0.51	ug/L			12/20/18 20:34	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/20/18 20:34	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/20/18 20:34	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/20/18 20:34	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: MB 480-451978/7

Matrix: Water

Analysis Batch: 451978

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/20/18 20:34	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/20/18 20:34	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/20/18 20:34	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120					12/20/18 20:34	1
4-Bromofluorobenzene (Surr)	101		73 - 120					12/20/18 20:34	1
Dibromofluoromethane (Surr)	97		75 - 123					12/20/18 20:34	1
Toluene-d8 (Surr)	98		80 - 120					12/20/18 20:34	1

Lab Sample ID: LCS 480-451978/5

Matrix: Water

Analysis Batch: 451978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	19.9		ug/L		80	73 - 126
1,1,1,2,2-Tetrachloroethane	25.0	24.4		ug/L		98	76 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	17.9		ug/L		72	61 - 148
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	76 - 122
1,1-Dichloroethane	25.0	21.4		ug/L		86	77 - 120
1,1-Dichloroethene	25.0	19.3		ug/L		77	66 - 127
1,2,3-Trimethylbenzene	25.0	25.0		ug/L		100	78 - 120
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2,4-Trimethylbenzene	25.0	22.9		ug/L		92	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.3		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	24.9		ug/L		100	77 - 120
1,2-Dichlorobenzene	25.0	23.3		ug/L		93	80 - 124
1,2-Dichloroethane	25.0	21.2		ug/L		85	75 - 120
1,2-Dichloropropane	25.0	23.5		ug/L		94	76 - 120
1,3,5-Trimethylbenzene	25.0	23.1		ug/L		92	77 - 121
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	127		ug/L		101	57 - 140
2-Hexanone	125	127		ug/L		102	65 - 127
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		93	71 - 125
Acetone	125	130		ug/L		104	56 - 142
Benzene	25.0	21.9		ug/L		88	71 - 124
Bromodichloromethane	25.0	23.4		ug/L		94	80 - 122
Bromoform	25.0	27.1		ug/L		108	61 - 132
Bromomethane	25.0	20.5		ug/L		82	55 - 144
Carbon disulfide	25.0	19.3		ug/L		77	59 - 134
Carbon tetrachloride	25.0	18.8		ug/L		75	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120
Chloroethane	25.0	20.6		ug/L		82	69 - 136
Chloroform	25.0	20.6		ug/L		82	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	74 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-451978/5

Matrix: Water

Analysis Batch: 451978

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
cis-1,3-Dichloropropene	25.0	23.7		ug/L		95	74 - 124
Cyclohexane	25.0	17.8		ug/L		71	59 - 135
Dibromochloromethane	25.0	26.1		ug/L		104	75 - 125
Dichlorodifluoromethane	25.0	18.0		ug/L		72	59 - 135
Ethylbenzene	25.0	22.6		ug/L		91	77 - 123
Isopropylbenzene	25.0	22.3		ug/L		89	77 - 122
Methyl acetate	50.0	49.7		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	22.7		ug/L		91	77 - 120
Methylcyclohexane	25.0	18.9		ug/L		76	68 - 134
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	22.9		ug/L		92	80 - 120
Tetrachloroethene	25.0	22.9		ug/L		92	74 - 122
Toluene	25.0	22.3		ug/L		89	80 - 122
trans-1,2-Dichloroethene	25.0	21.4		ug/L		86	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	20.6		ug/L		82	74 - 123
Trichlorofluoromethane	25.0	20.9		ug/L		84	62 - 150
Vinyl chloride	25.0	20.6		ug/L		82	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 480-147056-2 MS

Matrix: Water

Analysis Batch: 451978

Client Sample ID: 4009-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	2000		1000	2850		ug/L		83	73 - 126
1,1,2,2-Tetrachloroethane	40	U	1000	925		ug/L		93	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	1000	975		ug/L		97	61 - 148
1,1,2-Trichloroethane	40	U	1000	934		ug/L		93	76 - 122
1,1-Dichloroethane	96		1000	1030		ug/L		93	77 - 120
1,1-Dichloroethene	110		1000	1080		ug/L		97	66 - 127
1,2,3-Trimethylbenzene	40	U	1000	933		ug/L		93	78 - 120
1,2,4-Trichlorobenzene	40	U	1000	925		ug/L		92	79 - 122
1,2,4-Trimethylbenzene	40	U	1000	921		ug/L		92	76 - 121
1,2-Dibromo-3-Chloropropane	40	U	1000	869		ug/L		87	56 - 134
1,2-Dibromoethane	40	U	1000	985		ug/L		98	77 - 120
1,2-Dichlorobenzene	40	U	1000	917		ug/L		92	80 - 124
1,2-Dichloroethane	40	U	1000	880		ug/L		88	75 - 120
1,2-Dichloropropane	40	U	1000	995		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	40	U	1000	935		ug/L		94	77 - 121
1,3-Dichlorobenzene	40	U	1000	934		ug/L		93	77 - 120
1,4-Dichlorobenzene	40	U	1000	932		ug/L		93	78 - 124

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-2 MS

Matrix: Water

Analysis Batch: 451978

Client Sample ID: 4009-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	400	U	5000	4580		ug/L		92	57 - 140
2-Hexanone	200	U	5000	4790		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	200	U	5000	4580		ug/L		92	71 - 125
Acetone	400	U	5000	3400		ug/L		68	56 - 142
Benzene	40	U	1000	988		ug/L		99	71 - 124
Bromodichloromethane	40	U	1000	983		ug/L		98	80 - 122
Bromoform	40	U	1000	967		ug/L		97	61 - 132
Bromomethane	40	U	1000	919		ug/L		92	55 - 144
Carbon disulfide	40	U	1000	919		ug/L		92	59 - 134
Carbon tetrachloride	40	U	1000	932		ug/L		93	72 - 134
Chlorobenzene	40	U	1000	970		ug/L		97	80 - 120
Chloroethane	40	U	1000	957		ug/L		96	69 - 136
Chloroform	40	U	1000	904		ug/L		90	73 - 127
Chloromethane	40	U	1000	919		ug/L		92	68 - 124
cis-1,2-Dichloroethene	700		1000	1660		ug/L		96	74 - 124
cis-1,3-Dichloropropene	40	U	1000	931		ug/L		93	74 - 124
Cyclohexane	40	U	1000	928		ug/L		93	59 - 135
Dibromochloromethane	40	U	1000	996		ug/L		100	75 - 125
Dichlorodifluoromethane	40	U	1000	946		ug/L		95	59 - 135
Ethylbenzene	40	U	1000	971		ug/L		97	77 - 123
Isopropylbenzene	40	U	1000	908		ug/L		91	77 - 122
Methyl acetate	100	U	2000	1860		ug/L		93	74 - 133
Methyl tert-butyl ether	40	U	1000	919		ug/L		92	77 - 120
Methylcyclohexane	40	U	1000	892		ug/L		89	68 - 134
Methylene Chloride	40	U	1000	1060		ug/L		106	75 - 124
Styrene	40	U	1000	958		ug/L		96	80 - 120
Tetrachloroethene	40	U	1000	972		ug/L		97	74 - 122
Toluene	40	U	1000	926		ug/L		93	80 - 122
trans-1,2-Dichloroethene	40	U	1000	967		ug/L		97	73 - 127
trans-1,3-Dichloropropene	40	U	1000	896		ug/L		90	80 - 120
Trichloroethene	330		1000	1270		ug/L		94	74 - 123
Trichlorofluoromethane	40	U	1000	1090		ug/L		109	62 - 150
Vinyl chloride	40	U	1000	1010		ug/L		101	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	102		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-147056-2 MSD

Matrix: Water

Analysis Batch: 451978

Client Sample ID: 4009-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	2000		1000	2800		ug/L		78	73 - 126	2	15
1,1,2,2-Tetrachloroethane	40	U	1000	948		ug/L		95	76 - 120	2	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-2 MSD

Matrix: Water

Analysis Batch: 451978

Client Sample ID: 4009-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,2-Trichloro-1,2,2-trifluoroethane	40	U	1000	835		ug/L		83	61 - 148	16	20
1,1,2-Trichloroethane	40	U	1000	932		ug/L		93	76 - 122	0	15
1,1-Dichloroethane	96		1000	1020		ug/L		92	77 - 120	1	20
1,1-Dichloroethene	110		1000	1030		ug/L		92	66 - 127	4	16
1,2,3-Trimethylbenzene	40	U	1000	944		ug/L		94	78 - 120	1	20
1,2,4-Trichlorobenzene	40	U	1000	957		ug/L		96	79 - 122	3	20
1,2,4-Trimethylbenzene	40	U	1000	932		ug/L		93	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	40	U	1000	897		ug/L		90	56 - 134	3	15
1,2-Dibromoethane	40	U	1000	985		ug/L		98	77 - 120	0	15
1,2-Dichlorobenzene	40	U	1000	955		ug/L		95	80 - 124	4	20
1,2-Dichloroethane	40	U	1000	867		ug/L		87	75 - 120	1	20
1,2-Dichloropropane	40	U	1000	1000		ug/L		100	76 - 120	1	20
1,3,5-Trimethylbenzene	40	U	1000	953		ug/L		95	77 - 121	2	20
1,3-Dichlorobenzene	40	U	1000	963		ug/L		96	77 - 120	3	20
1,4-Dichlorobenzene	40	U	1000	957		ug/L		96	78 - 124	3	20
2-Butanone (MEK)	400	U	5000	4750		ug/L		95	57 - 140	4	20
2-Hexanone	200	U	5000	4820		ug/L		96	65 - 127	0	15
4-Methyl-2-pentanone (MIBK)	200	U	5000	4640		ug/L		93	71 - 125	1	35
Acetone	400	U	5000	3760		ug/L		75	56 - 142	10	15
Benzene	40	U	1000	964		ug/L		96	71 - 124	3	13
Bromodichloromethane	40	U	1000	982		ug/L		98	80 - 122	0	15
Bromoform	40	U	1000	964		ug/L		96	61 - 132	0	15
Bromomethane	40	U	1000	850		ug/L		85	55 - 144	8	15
Carbon disulfide	40	U	1000	894		ug/L		89	59 - 134	3	15
Carbon tetrachloride	40	U	1000	918		ug/L		92	72 - 134	2	15
Chlorobenzene	40	U	1000	970		ug/L		97	80 - 120	0	25
Chloroethane	40	U	1000	927		ug/L		93	69 - 136	3	15
Chloroform	40	U	1000	894		ug/L		89	73 - 127	1	20
Chloromethane	40	U	1000	910		ug/L		91	68 - 124	1	15
cis-1,2-Dichloroethene	700		1000	1630		ug/L		93	74 - 124	2	15
cis-1,3-Dichloropropene	40	U	1000	938		ug/L		94	74 - 124	1	15
Cyclohexane	40	U	1000	878		ug/L		88	59 - 135	6	20
Dibromochloromethane	40	U	1000	1020		ug/L		102	75 - 125	3	15
Dichlorodifluoromethane	40	U	1000	854		ug/L		85	59 - 135	10	20
Ethylbenzene	40	U	1000	952		ug/L		95	77 - 123	2	15
Isopropylbenzene	40	U	1000	924		ug/L		92	77 - 122	2	20
Methyl acetate	100	U	2000	1820		ug/L		91	74 - 133	2	20
Methyl tert-butyl ether	40	U	1000	931		ug/L		93	77 - 120	1	37
Methylcyclohexane	40	U	1000	899		ug/L		90	68 - 134	1	20
Methylene Chloride	40	U	1000	1030		ug/L		103	75 - 124	3	15
Styrene	40	U	1000	939		ug/L		94	80 - 120	2	20
Tetrachloroethene	40	U	1000	1010		ug/L		101	74 - 122	3	20
Toluene	40	U	1000	941		ug/L		94	80 - 122	2	15
trans-1,2-Dichloroethene	40	U	1000	948		ug/L		95	73 - 127	2	20
trans-1,3-Dichloropropene	40	U	1000	896		ug/L		90	80 - 120	0	15
Trichloroethene	330		1000	1250		ug/L		92	74 - 123	2	16
Trichlorofluoromethane	40	U	1000	1060		ug/L		106	62 - 150	3	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-2 MSD

Matrix: Water

Analysis Batch: 451978

Client Sample ID: 4009-8

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Vinyl chloride	40	U	1000	971		ug/L		97	65 - 133	4	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		77 - 120								
4-Bromofluorobenzene (Surr)	106		73 - 120								
Dibromofluoromethane (Surr)	99		75 - 123								
Toluene-d8 (Surr)	101		80 - 120								

Lab Sample ID: MB 480-452039/7

Matrix: Water

Analysis Batch: 452039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 12:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 12:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 12:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 12:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 12:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 12:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 12:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 12:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 12:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 12:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 12:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 12:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 12:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 12:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 12:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 12:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 12:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 12:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 12:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 12:36	1
Acetone	10	U	10	3.0	ug/L			12/21/18 12:36	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 12:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 12:36	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 12:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 12:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 12:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 12:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 12:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 12:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 12:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 12:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 12:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 12:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 12:36	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 12:36	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: MB 480-452039/7

Matrix: Water

Analysis Batch: 452039

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 12:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 12:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 12:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 12:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 12:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 12:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 12:36	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 12:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 12:36	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 12:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 12:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 12:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 12:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 12:36	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 12:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 12:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		12/21/18 12:36	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/21/18 12:36	1
Dibromofluoromethane (Surr)	99		75 - 123		12/21/18 12:36	1
Toluene-d8 (Surr)	102		80 - 120		12/21/18 12:36	1

Lab Sample ID: LCS 480-452039/5

Matrix: Water

Analysis Batch: 452039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.7		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.7		ug/L		99	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	19.9		ug/L		79	61 - 148
1,1,2-Trichloroethane	25.0	24.3		ug/L		97	76 - 122
1,1-Dichloroethane	25.0	23.3		ug/L		93	77 - 120
1,1-Dichloroethene	25.0	21.6		ug/L		87	66 - 127
1,2,3-Trimethylbenzene	25.0	25.2		ug/L		101	78 - 120
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	23.7		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.9		ug/L		96	56 - 134
1,2-Dibromoethane	25.0	25.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	23.2		ug/L		93	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	23.5		ug/L		94	77 - 121
1,3-Dichlorobenzene	25.0	24.6		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.5		ug/L		98	80 - 120
2-Butanone (MEK)	125	130		ug/L		104	57 - 140
2-Hexanone	125	134		ug/L		107	65 - 127

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-452039/5

Matrix: Water

Analysis Batch: 452039

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4-Methyl-2-pentanone (MIBK)	125	122		ug/L		97	71 - 125
Acetone	125	143		ug/L		115	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	26.1		ug/L		105	80 - 122
Bromoform	25.0	27.4		ug/L		110	61 - 132
Bromomethane	25.0	22.4		ug/L		90	55 - 144
Carbon disulfide	25.0	21.8		ug/L		87	59 - 134
Carbon tetrachloride	25.0	21.3		ug/L		85	72 - 134
Chlorobenzene	25.0	24.5		ug/L		98	80 - 120
Chloroethane	25.0	22.0		ug/L		88	69 - 136
Chloroform	25.0	23.1		ug/L		93	73 - 127
Chloromethane	25.0	22.5		ug/L		90	68 - 124
cis-1,2-Dichloroethene	25.0	24.3		ug/L		97	74 - 124
cis-1,3-Dichloropropene	25.0	25.7		ug/L		103	74 - 124
Cyclohexane	25.0	20.2		ug/L		81	59 - 135
Dibromochloromethane	25.0	27.6		ug/L		110	75 - 125
Dichlorodifluoromethane	25.0	19.5		ug/L		78	59 - 135
Ethylbenzene	25.0	23.9		ug/L		96	77 - 123
Isopropylbenzene	25.0	22.5		ug/L		90	77 - 122
Methyl acetate	50.0	49.1		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	24.5		ug/L		98	77 - 120
Methylcyclohexane	25.0	21.5		ug/L		86	68 - 134
Methylene Chloride	25.0	26.0		ug/L		104	75 - 124
Styrene	25.0	24.1		ug/L		96	80 - 120
Tetrachloroethene	25.0	24.3		ug/L		97	74 - 122
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	26.0		ug/L		104	80 - 120
Trichloroethene	25.0	23.4		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	24.6		ug/L		98	62 - 150
Vinyl chloride	25.0	23.1		ug/L		92	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	98		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: 480-147056-23 MS

Matrix: Water

Analysis Batch: 452039

Client Sample ID: 4009-291

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	950		500	1240	*	ug/L		58	73 - 126
1,1,2,2-Tetrachloroethane	20	U	500	485		ug/L		97	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	500	508		ug/L		102	61 - 148
1,1,2-Trichloroethane	20	U	500	495		ug/L		99	76 - 122

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-23 MS

Matrix: Water

Analysis Batch: 452039

Client Sample ID: 4009-291

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	72		500	554		ug/L		96	77 - 120
1,1-Dichloroethene	79		500	560		ug/L		96	66 - 127
1,2,3-Trimethylbenzene	20	U	500	496		ug/L		99	78 - 120
1,2,4-Trichlorobenzene	20	U	500	483		ug/L		97	79 - 122
1,2,4-Trimethylbenzene	20	U	500	484		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	20	U	500	458		ug/L		92	56 - 134
1,2-Dibromoethane	20	U	500	500		ug/L		100	77 - 120
1,2-Dichlorobenzene	20	U	500	486		ug/L		97	80 - 124
1,2-Dichloroethane	20	U	500	451		ug/L		90	75 - 120
1,2-Dichloropropane	20	U	500	516		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	20	U	500	491		ug/L		98	77 - 121
1,3-Dichlorobenzene	20	U	500	488		ug/L		98	77 - 120
1,4-Dichlorobenzene	20	U	500	504		ug/L		101	78 - 124
2-Butanone (MEK)	200	U	2500	1690		ug/L		68	57 - 140
2-Hexanone	100	U	2500	2390		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	100	U	2500	2310		ug/L		92	71 - 125
Acetone	200	U	2500	1700		ug/L		68	56 - 142
Benzene	20	U	500	508		ug/L		102	71 - 124
Bromodichloromethane	20	U	500	508		ug/L		102	80 - 122
Bromoform	20	U	500	512		ug/L		102	61 - 132
Bromomethane	20	U	500	458		ug/L		92	55 - 144
Carbon disulfide	20	U	500	496		ug/L		99	59 - 134
Carbon tetrachloride	20	U	500	485		ug/L		97	72 - 134
Chlorobenzene	20	U	500	505		ug/L		101	80 - 120
Chloroethane	20	U	500	470		ug/L		94	69 - 136
Chloroform	20	U	500	475		ug/L		95	73 - 127
Chloromethane	20	U	500	478		ug/L		96	68 - 124
cis-1,2-Dichloroethene	350		500	784		ug/L		88	74 - 124
cis-1,3-Dichloropropene	20	U	500	494		ug/L		99	74 - 124
Cyclohexane	20	U	500	483		ug/L		97	59 - 135
Dibromochloromethane	20	U	500	510		ug/L		102	75 - 125
Dichlorodifluoromethane	20	U	500	510		ug/L		102	59 - 135
Ethylbenzene	20	U	500	507		ug/L		101	77 - 123
Isopropylbenzene	20	U	500	479		ug/L		96	77 - 122
Methyl acetate	50	U	1000	1090		ug/L		109	74 - 133
Methyl tert-butyl ether	20	U	500	475		ug/L		95	77 - 120
Methylcyclohexane	20	U	500	492		ug/L		98	68 - 134
Methylene Chloride	20	U	500	527		ug/L		105	75 - 124
Styrene	20	U	500	488		ug/L		98	80 - 120
Tetrachloroethene	20	U	500	509		ug/L		102	74 - 122
Toluene	20	U	500	484		ug/L		97	80 - 122
trans-1,2-Dichloroethene	20	U	500	489		ug/L		98	73 - 127
trans-1,3-Dichloropropene	20	U	500	481		ug/L		96	80 - 120
Trichloroethene	330		500	766		ug/L		87	74 - 123
Trichlorofluoromethane	20	U	500	544		ug/L		109	62 - 150
Vinyl chloride	68		500	554		ug/L		97	65 - 133

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-23 MS

Matrix: Water

Analysis Batch: 452039

Client Sample ID: 4009-291

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	97		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	99		80 - 120

Lab Sample ID: 480-147056-23 MSD

Matrix: Water

Analysis Batch: 452039

Client Sample ID: 4009-291

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	950		500	1170	*	ug/L		44	73 - 126	6	15
1,1,2,2-Tetrachloroethane	20	U	500	480		ug/L		96	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	20	U	500	472		ug/L		94	61 - 148	7	20
1,1,2-Trichloroethane	20	U	500	477		ug/L		95	76 - 122	4	15
1,1-Dichloroethane	72		500	516		ug/L		89	77 - 120	7	20
1,1-Dichloroethene	79		500	523		ug/L		89	66 - 127	7	16
1,2,3-Trimethylbenzene	20	U	500	500		ug/L		100	78 - 120	1	20
1,2,4-Trichlorobenzene	20	U	500	491		ug/L		98	79 - 122	1	20
1,2,4-Trimethylbenzene	20	U	500	481		ug/L		96	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	20	U	500	460		ug/L		92	56 - 134	1	15
1,2-Dibromoethane	20	U	500	485		ug/L		97	77 - 120	3	15
1,2-Dichlorobenzene	20	U	500	482		ug/L		96	80 - 124	1	20
1,2-Dichloroethane	20	U	500	442		ug/L		88	75 - 120	2	20
1,2-Dichloropropane	20	U	500	492		ug/L		98	76 - 120	5	20
1,3,5-Trimethylbenzene	20	U	500	482		ug/L		96	77 - 121	2	20
1,3-Dichlorobenzene	20	U	500	484		ug/L		97	77 - 120	1	20
1,4-Dichlorobenzene	20	U	500	487		ug/L		97	78 - 124	3	20
2-Butanone (MEK)	200	U	2500	2050		ug/L		82	57 - 140	19	20
2-Hexanone	100	U	2500	2370		ug/L		95	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	100	U	2500	2260		ug/L		90	71 - 125	2	35
Acetone	200	U	2500	2010	*	ug/L		81	56 - 142	17	15
Benzene	20	U	500	487		ug/L		97	71 - 124	4	13
Bromodichloromethane	20	U	500	491		ug/L		98	80 - 122	3	15
Bromoform	20	U	500	497		ug/L		99	61 - 132	3	15
Bromomethane	20	U	500	430		ug/L		86	55 - 144	6	15
Carbon disulfide	20	U	500	449		ug/L		90	59 - 134	10	15
Carbon tetrachloride	20	U	500	447		ug/L		89	72 - 134	8	15
Chlorobenzene	20	U	500	484		ug/L		97	80 - 120	4	25
Chloroethane	20	U	500	452		ug/L		90	69 - 136	4	15
Chloroform	20	U	500	446		ug/L		89	73 - 127	6	20
Chloromethane	20	U	500	451		ug/L		90	68 - 124	6	15
cis-1,2-Dichloroethene	350		500	758		ug/L		82	74 - 124	3	15
cis-1,3-Dichloropropene	20	U	500	488		ug/L		98	74 - 124	1	15
Cyclohexane	20	U	500	446		ug/L		89	59 - 135	8	20
Dibromochloromethane	20	U	500	509		ug/L		102	75 - 125	0	15
Dichlorodifluoromethane	20	U	500	440		ug/L		88	59 - 135	15	20
Ethylbenzene	20	U	500	483		ug/L		97	77 - 123	5	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-23 MSD

Matrix: Water

Analysis Batch: 452039

Client Sample ID: 4009-291

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Isopropylbenzene	20	U	500	475		ug/L		95	77 - 122	1	20
Methyl acetate	50	U	1000	879	*	ug/L		88	74 - 133	22	20
Methyl tert-butyl ether	20	U	500	458		ug/L		92	77 - 120	4	37
Methylcyclohexane	20	U	500	471		ug/L		94	68 - 134	4	20
Methylene Chloride	20	U	500	527		ug/L		105	75 - 124	0	15
Styrene	20	U	500	472		ug/L		94	80 - 120	3	20
Tetrachloroethene	20	U	500	494		ug/L		99	74 - 122	3	20
Toluene	20	U	500	469		ug/L		94	80 - 122	3	15
trans-1,2-Dichloroethene	20	U	500	469		ug/L		94	73 - 127	4	20
trans-1,3-Dichloropropene	20	U	500	478		ug/L		96	80 - 120	0	15
Trichloroethene	330		500	714		ug/L		76	74 - 123	7	16
Trichlorofluoromethane	20	U	500	502		ug/L		100	62 - 150	8	20
Vinyl chloride	68		500	511		ug/L		89	65 - 133	8	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: MB 480-452195/7

Matrix: Water

Analysis Batch: 452195

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/21/18 20:54	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 20:54	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/21/18 20:54	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/21/18 20:54	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/21/18 20:54	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/21/18 20:54	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/21/18 20:54	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/21/18 20:54	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/21/18 20:54	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/21/18 20:54	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/21/18 20:54	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/21/18 20:54	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/21/18 20:54	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/21/18 20:54	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/21/18 20:54	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/21/18 20:54	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/21/18 20:54	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/21/18 20:54	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/21/18 20:54	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/21/18 20:54	1
Acetone	10	U	10	3.0	ug/L			12/21/18 20:54	1
Benzene	1.0	U	1.0	0.41	ug/L			12/21/18 20:54	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/21/18 20:54	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: MB 480-452195/7

Matrix: Water

Analysis Batch: 452195

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.26	ug/L			12/21/18 20:54	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/21/18 20:54	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/21/18 20:54	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/21/18 20:54	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/21/18 20:54	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/21/18 20:54	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/21/18 20:54	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/21/18 20:54	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/21/18 20:54	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/21/18 20:54	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/21/18 20:54	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/21/18 20:54	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/21/18 20:54	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/21/18 20:54	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/21/18 20:54	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/21/18 20:54	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/21/18 20:54	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/21/18 20:54	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/21/18 20:54	1
Styrene	1.0	U	1.0	0.73	ug/L			12/21/18 20:54	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/21/18 20:54	1
Toluene	1.0	U	1.0	0.51	ug/L			12/21/18 20:54	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/21/18 20:54	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/21/18 20:54	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/21/18 20:54	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/21/18 20:54	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/21/18 20:54	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/21/18 20:54	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		12/21/18 20:54	1
4-Bromofluorobenzene (Surr)	103		73 - 120		12/21/18 20:54	1
Dibromofluoromethane (Surr)	100		75 - 123		12/21/18 20:54	1
Toluene-d8 (Surr)	101		80 - 120		12/21/18 20:54	1

Lab Sample ID: LCS 480-452195/5

Matrix: Water

Analysis Batch: 452195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.9		ug/L		100	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.2		ug/L		93	61 - 148
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	23.6		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	23.2		ug/L		93	66 - 127
1,2,3-Trimethylbenzene	25.0	25.4		ug/L		102	78 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-452195/5

Matrix: Water

Analysis Batch: 452195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,4-Trichlorobenzene	25.0	25.5		ug/L		102	79 - 122
1,2,4-Trimethylbenzene	25.0	24.3		ug/L		97	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.9		ug/L		92	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	24.7		ug/L		99	80 - 124
1,2-Dichloroethane	25.0	22.1		ug/L		89	75 - 120
1,2-Dichloropropane	25.0	25.6		ug/L		102	76 - 120
1,3,5-Trimethylbenzene	25.0	24.4		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 120
2-Butanone (MEK)	125	110		ug/L		88	57 - 140
2-Hexanone	125	128		ug/L		103	65 - 127
4-Methyl-2-pentanone (MIBK)	125	118		ug/L		94	71 - 125
Acetone	125	143		ug/L		114	56 - 142
Benzene	25.0	24.3		ug/L		97	71 - 124
Bromodichloromethane	25.0	25.6		ug/L		102	80 - 122
Bromoform	25.0	27.6		ug/L		110	61 - 132
Bromomethane	25.0	22.0		ug/L		88	55 - 144
Carbon disulfide	25.0	22.4		ug/L		90	59 - 134
Carbon tetrachloride	25.0	22.1		ug/L		88	72 - 134
Chlorobenzene	25.0	24.3		ug/L		97	80 - 120
Chloroethane	25.0	23.0		ug/L		92	69 - 136
Chloroform	25.0	22.7		ug/L		91	73 - 127
Chloromethane	25.0	23.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	25.1		ug/L		101	74 - 124
Cyclohexane	25.0	22.7		ug/L		91	59 - 135
Dibromochloromethane	25.0	27.1		ug/L		108	75 - 125
Dichlorodifluoromethane	25.0	20.2		ug/L		81	59 - 135
Ethylbenzene	25.0	24.1		ug/L		97	77 - 123
Isopropylbenzene	25.0	23.7		ug/L		95	77 - 122
Methyl acetate	50.0	46.5		ug/L		93	74 - 133
Methyl tert-butyl ether	25.0	24.0		ug/L		96	77 - 120
Methylcyclohexane	25.0	22.4		ug/L		90	68 - 134
Methylene Chloride	25.0	26.7		ug/L		107	75 - 124
Styrene	25.0	24.6		ug/L		98	80 - 120
Tetrachloroethene	25.0	25.3		ug/L		101	74 - 122
Toluene	25.0	24.0		ug/L		96	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	25.1		ug/L		100	80 - 120
Trichloroethene	25.0	23.6		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	25.5		ug/L		102	62 - 150
Vinyl chloride	25.0	23.9		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	103		73 - 120
Dibromofluoromethane (Surr)	100		75 - 123

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-452195/5

Matrix: Water

Analysis Batch: 452195

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120

Lab Sample ID: MB 480-452221/7

Matrix: Water

Analysis Batch: 452221

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/22/18 10:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 10:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/22/18 10:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/22/18 10:57	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/22/18 10:57	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/22/18 10:57	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/22/18 10:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/22/18 10:57	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/22/18 10:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/22/18 10:57	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/22/18 10:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/22/18 10:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/22/18 10:57	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/22/18 10:57	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/22/18 10:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/22/18 10:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/22/18 10:57	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/22/18 10:57	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/22/18 10:57	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/22/18 10:57	1
Acetone	10	U	10	3.0	ug/L			12/22/18 10:57	1
Benzene	1.0	U	1.0	0.41	ug/L			12/22/18 10:57	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/22/18 10:57	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/22/18 10:57	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/22/18 10:57	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/22/18 10:57	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/22/18 10:57	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/22/18 10:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/22/18 10:57	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/22/18 10:57	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/22/18 10:57	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/22/18 10:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/22/18 10:57	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/22/18 10:57	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/22/18 10:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/22/18 10:57	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/22/18 10:57	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/22/18 10:57	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/22/18 10:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/22/18 10:57	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/22/18 10:57	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: MB 480-452221/7

Matrix: Water

Analysis Batch: 452221

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/22/18 10:57	1
Styrene	1.0	U	1.0	0.73	ug/L			12/22/18 10:57	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/22/18 10:57	1
Toluene	1.0	U	1.0	0.51	ug/L			12/22/18 10:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/22/18 10:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/22/18 10:57	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/22/18 10:57	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/22/18 10:57	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/22/18 10:57	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/22/18 10:57	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		12/22/18 10:57	1
4-Bromofluorobenzene (Surr)	101		73 - 120		12/22/18 10:57	1
Dibromofluoromethane (Surr)	99		75 - 123		12/22/18 10:57	1
Toluene-d8 (Surr)	105		80 - 120		12/22/18 10:57	1

Lab Sample ID: LCS 480-452221/5

Matrix: Water

Analysis Batch: 452221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	19.7		ug/L		79	73 - 126
1,1,1,2-Tetrachloroethane	25.0	24.9		ug/L		99	76 - 120
1,1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	18.3		ug/L		73	61 - 148
1,1,2-Trichloroethane	25.0	24.9		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	21.9		ug/L		88	77 - 120
1,1-Dichloroethene	25.0	18.7		ug/L		75	66 - 127
1,2,3-Trimethylbenzene	25.0	24.9		ug/L		100	78 - 120
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	79 - 122
1,2,4-Trimethylbenzene	25.0	22.3		ug/L		89	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	23.8		ug/L		95	56 - 134
1,2-Dibromoethane	25.0	25.7		ug/L		103	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	22.4		ug/L		90	75 - 120
1,2-Dichloropropane	25.0	25.8		ug/L		103	76 - 120
1,3,5-Trimethylbenzene	25.0	21.9		ug/L		88	77 - 121
1,3-Dichlorobenzene	25.0	23.6		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.9		ug/L		95	80 - 120
2-Butanone (MEK)	125	144		ug/L		115	57 - 140
2-Hexanone	125	132		ug/L		105	65 - 127
4-Methyl-2-pentanone (MIBK)	125	121		ug/L		97	71 - 125
Acetone	125	126		ug/L		101	56 - 142
Benzene	25.0	23.0		ug/L		92	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		99	80 - 122
Bromoform	25.0	28.0		ug/L		112	61 - 132
Bromomethane	25.0	20.0		ug/L		80	55 - 144

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-452221/5

Matrix: Water

Analysis Batch: 452221

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Carbon disulfide	25.0	18.6		ug/L		75	59 - 134
Carbon tetrachloride	25.0	18.1		ug/L		72	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	19.9		ug/L		80	69 - 136
Chloroform	25.0	21.7		ug/L		87	73 - 127
Chloromethane	25.0	19.7		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	23.6		ug/L		94	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	16.8		ug/L		67	59 - 135
Dibromochloromethane	25.0	26.6		ug/L		107	75 - 125
Dichlorodifluoromethane	25.0	16.2		ug/L		65	59 - 135
Ethylbenzene	25.0	22.5		ug/L		90	77 - 123
Isopropylbenzene	25.0	20.2		ug/L		81	77 - 122
Methyl acetate	50.0	54.2		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	24.4		ug/L		98	77 - 120
Methylcyclohexane	25.0	17.1		ug/L		68	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	23.6		ug/L		94	80 - 120
Tetrachloroethene	25.0	21.5		ug/L		86	74 - 122
Toluene	25.0	22.5		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	21.0		ug/L		84	73 - 127
trans-1,3-Dichloropropene	25.0	25.4		ug/L		101	80 - 120
Trichloroethene	25.0	21.7		ug/L		87	74 - 123
Trichlorofluoromethane	25.0	20.8		ug/L		83	62 - 150
Vinyl chloride	25.0	19.9		ug/L		80	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	101		77 - 120
4-Bromofluorobenzene (Surr)	106		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123
Toluene-d8 (Surr)	102		80 - 120

Lab Sample ID: 480-147056-28 MS

Matrix: Water

Analysis Batch: 452221

Client Sample ID: DUP2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	890		250	935	*	ug/L		18	73 - 126
1,1,2,2-Tetrachloroethane	10	U	250	237		ug/L		95	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	J	250	233		ug/L		89	61 - 148
1,1,2-Trichloroethane	10	U	250	241		ug/L		96	76 - 122
1,1-Dichloroethane	63		250	291		ug/L		91	77 - 120
1,1-Dichloroethene	63		250	274		ug/L		84	66 - 127
1,2,3-Trimethylbenzene	10	U	250	250		ug/L		100	78 - 120
1,2,4-Trichlorobenzene	10	U	250	238		ug/L		95	79 - 122
1,2,4-Trimethylbenzene	10	U	250	237		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	10	U	250	221		ug/L		88	56 - 134

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-28 MS

Matrix: Water

Analysis Batch: 452221

Client Sample ID: DUP2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromoethane	10	U	250	237		ug/L		95	77 - 120
1,2-Dichlorobenzene	10	U	250	243		ug/L		97	80 - 124
1,2-Dichloroethane	10	U	250	217		ug/L		87	75 - 120
1,2-Dichloropropane	10	U	250	250		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	10	U	250	239		ug/L		96	77 - 121
1,3-Dichlorobenzene	10	U	250	234		ug/L		94	77 - 120
1,4-Dichlorobenzene	10	U	250	242		ug/L		97	78 - 124
2-Butanone (MEK)	100	U	1250	1090		ug/L		87	57 - 140
2-Hexanone	50	U	1250	1170		ug/L		94	65 - 127
4-Methyl-2-pentanone (MIBK)	50	U	1250	1120		ug/L		89	71 - 125
Acetone	100	U	1250	884		ug/L		71	56 - 142
Benzene	10	U	250	239		ug/L		95	71 - 124
Bromodichloromethane	10	U	250	242		ug/L		97	80 - 122
Bromoform	10	U	250	236		ug/L		94	61 - 132
Bromomethane	10	U	250	193		ug/L		77	55 - 144
Carbon disulfide	10	U	250	195		ug/L		78	59 - 134
Carbon tetrachloride	10	U	250	216		ug/L		87	72 - 134
Chlorobenzene	10	U	250	240		ug/L		96	80 - 120
Chloroethane	10	U	250	198		ug/L		79	69 - 136
Chloroform	10	U	250	221		ug/L		88	73 - 127
Chloromethane	10	U	250	199		ug/L		80	68 - 124
cis-1,2-Dichloroethene	320		250	519		ug/L		79	74 - 124
cis-1,3-Dichloropropene	10	U	250	227		ug/L		91	74 - 124
Cyclohexane	10	U	250	215		ug/L		86	59 - 135
Dibromochloromethane	10	U	250	242		ug/L		97	75 - 125
Dichlorodifluoromethane	10	U	250	159		ug/L		64	59 - 135
Ethylbenzene	10	U	250	238		ug/L		95	77 - 123
Isopropylbenzene	10	U	250	229		ug/L		92	77 - 122
Methyl acetate	25	U	500	484		ug/L		97	74 - 133
Methyl tert-butyl ether	10	U	250	230		ug/L		92	77 - 120
Methylcyclohexane	10	U	250	217		ug/L		87	68 - 134
Methylene Chloride	10	U	250	241		ug/L		96	75 - 124
Styrene	10	U	250	232		ug/L		93	80 - 120
Tetrachloroethene	10	U	250	236		ug/L		94	74 - 122
Toluene	10	U	250	231		ug/L		92	80 - 122
trans-1,2-Dichloroethene	10	U	250	229		ug/L		92	73 - 127
trans-1,3-Dichloropropene	10	U	250	226		ug/L		91	80 - 120
Trichloroethene	300		250	481	*	ug/L		73	74 - 123
Trichlorofluoromethane	10	U	250	214		ug/L		86	62 - 150
Vinyl chloride	66		250	254		ug/L		75	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	104		73 - 120
Dibromofluoromethane (Surr)	99		75 - 123
Toluene-d8 (Surr)	99		80 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-28 MSD

Matrix: Water

Analysis Batch: 452221

Client Sample ID: DUP2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	890		250	910	*	ug/L		8	73 - 126	3	15
1,1,2,2-Tetrachloroethane	10	U	250	238		ug/L		95	76 - 120	0	15
1,1,2-Trichloro-1,2,2-trifluoroethane	9.2	J	250	226		ug/L		87	61 - 148	3	20
1,1,2-Trichloroethane	10	U	250	231		ug/L		93	76 - 122	4	15
1,1-Dichloroethane	63		250	277		ug/L		85	77 - 120	5	20
1,1-Dichloroethene	63		250	265		ug/L		81	66 - 127	3	16
1,2,3-Trimethylbenzene	10	U	250	242		ug/L		97	78 - 120	3	20
1,2,4-Trichlorobenzene	10	U	250	235		ug/L		94	79 - 122	1	20
1,2,4-Trimethylbenzene	10	U	250	231		ug/L		93	76 - 121	3	20
1,2-Dibromo-3-Chloropropane	10	U	250	223		ug/L		89	56 - 134	1	15
1,2-Dibromoethane	10	U	250	240		ug/L		96	77 - 120	1	15
1,2-Dichlorobenzene	10	U	250	239		ug/L		96	80 - 124	1	20
1,2-Dichloroethane	10	U	250	218		ug/L		87	75 - 120	0	20
1,2-Dichloropropane	10	U	250	244		ug/L		97	76 - 120	3	20
1,3,5-Trimethylbenzene	10	U	250	228		ug/L		91	77 - 121	5	20
1,3-Dichlorobenzene	10	U	250	231		ug/L		92	77 - 120	1	20
1,4-Dichlorobenzene	10	U	250	235		ug/L		94	78 - 124	3	20
2-Butanone (MEK)	100	U	1250	1070		ug/L		86	57 - 140	2	20
2-Hexanone	50	U	1250	1160		ug/L		93	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	50	U	1250	1120		ug/L		90	71 - 125	0	35
Acetone	100	U	1250	866		ug/L		69	56 - 142	2	15
Benzene	10	U	250	230		ug/L		92	71 - 124	4	13
Bromodichloromethane	10	U	250	234		ug/L		93	80 - 122	4	15
Bromoform	10	U	250	239		ug/L		96	61 - 132	2	15
Bromomethane	10	U	250	192		ug/L		77	55 - 144	0	15
Carbon disulfide	10	U	250	192		ug/L		77	59 - 134	1	15
Carbon tetrachloride	10	U	250	210		ug/L		84	72 - 134	3	15
Chlorobenzene	10	U	250	232		ug/L		93	80 - 120	3	25
Chloroethane	10	U	250	195		ug/L		78	69 - 136	2	15
Chloroform	10	U	250	213		ug/L		85	73 - 127	4	20
Chloromethane	10	U	250	188		ug/L		75	68 - 124	5	15
cis-1,2-Dichloroethene	320		250	500	*	ug/L		71	74 - 124	4	15
cis-1,3-Dichloropropene	10	U	250	232		ug/L		93	74 - 124	2	15
Cyclohexane	10	U	250	209		ug/L		84	59 - 135	3	20
Dibromochloromethane	10	U	250	242		ug/L		97	75 - 125	0	15
Dichlorodifluoromethane	10	U	250	152		ug/L		61	59 - 135	5	20
Ethylbenzene	10	U	250	228		ug/L		91	77 - 123	4	15
Isopropylbenzene	10	U	250	223		ug/L		89	77 - 122	3	20
Methyl acetate	25	U	500	478		ug/L		96	74 - 133	1	20
Methyl tert-butyl ether	10	U	250	223		ug/L		89	77 - 120	3	37
Methylcyclohexane	10	U	250	206		ug/L		83	68 - 134	5	20
Methylene Chloride	10	U	250	245		ug/L		98	75 - 124	1	15
Styrene	10	U	250	229		ug/L		92	80 - 120	2	20
Tetrachloroethene	10	U	250	228		ug/L		91	74 - 122	3	20
Toluene	10	U	250	228		ug/L		91	80 - 122	1	15
trans-1,2-Dichloroethene	10	U	250	221		ug/L		88	73 - 127	4	20
trans-1,3-Dichloropropene	10	U	250	226		ug/L		90	80 - 120	0	15

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-28 MSD

Matrix: Water

Analysis Batch: 452221

Client Sample ID: DUP2

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichloroethene	300		250	455	*	ug/L		63	74 - 123	6	16
Trichlorofluoromethane	10	U	250	206		ug/L		82	62 - 150	4	20
Vinyl chloride	66		250	242		ug/L		70	65 - 133	5	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	96		77 - 120
4-Bromofluorobenzene (Surr)	102		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123
Toluene-d8 (Surr)	100		80 - 120

Lab Sample ID: MB 480-452309/7

Matrix: Water

Analysis Batch: 452309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	1.0	U	1.0	0.82	ug/L			12/24/18 09:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			12/24/18 09:59	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			12/24/18 09:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			12/24/18 09:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			12/24/18 09:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			12/24/18 09:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			12/24/18 09:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			12/24/18 09:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			12/24/18 09:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			12/24/18 09:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			12/24/18 09:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			12/24/18 09:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			12/24/18 09:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			12/24/18 09:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			12/24/18 09:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			12/24/18 09:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			12/24/18 09:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			12/24/18 09:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			12/24/18 09:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			12/24/18 09:59	1
Acetone	10	U	10	3.0	ug/L			12/24/18 09:59	1
Benzene	1.0	U	1.0	0.41	ug/L			12/24/18 09:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			12/24/18 09:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			12/24/18 09:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			12/24/18 09:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			12/24/18 09:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			12/24/18 09:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			12/24/18 09:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			12/24/18 09:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			12/24/18 09:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			12/24/18 09:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			12/24/18 09:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			12/24/18 09:59	1

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: MB 480-452309/7

Matrix: Water

Analysis Batch: 452309

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cyclohexane	1.0	U	1.0	0.18	ug/L			12/24/18 09:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			12/24/18 09:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			12/24/18 09:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			12/24/18 09:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			12/24/18 09:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			12/24/18 09:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			12/24/18 09:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			12/24/18 09:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			12/24/18 09:59	1
Styrene	1.0	U	1.0	0.73	ug/L			12/24/18 09:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			12/24/18 09:59	1
Toluene	1.0	U	1.0	0.51	ug/L			12/24/18 09:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			12/24/18 09:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			12/24/18 09:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			12/24/18 09:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			12/24/18 09:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			12/24/18 09:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			12/24/18 09:59	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		77 - 120		12/24/18 09:59	1
4-Bromofluorobenzene (Surr)	108		73 - 120		12/24/18 09:59	1
Dibromofluoromethane (Surr)	91		75 - 123		12/24/18 09:59	1
Toluene-d8 (Surr)	99		80 - 120		12/24/18 09:59	1

Lab Sample ID: LCS 480-452309/5

Matrix: Water

Analysis Batch: 452309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	21.8		ug/L		87	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.6		ug/L		98	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.1		ug/L		88	61 - 148
1,1,2-Trichloroethane	25.0	23.7		ug/L		95	76 - 122
1,1-Dichloroethane	25.0	23.6		ug/L		94	77 - 120
1,1-Dichloroethene	25.0	21.2		ug/L		85	66 - 127
1,2,3-Trimethylbenzene	25.0	25.5		ug/L		102	78 - 120
1,2,4-Trichlorobenzene	25.0	24.3		ug/L		97	79 - 122
1,2,4-Trimethylbenzene	25.0	23.8		ug/L		95	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	22.2		ug/L		89	56 - 134
1,2-Dibromoethane	25.0	24.0		ug/L		96	77 - 120
1,2-Dichlorobenzene	25.0	24.4		ug/L		98	80 - 124
1,2-Dichloroethane	25.0	21.8		ug/L		87	75 - 120
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3,5-Trimethylbenzene	25.0	23.7		ug/L		95	77 - 121
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: LCS 480-452309/5

Matrix: Water

Analysis Batch: 452309

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2-Butanone (MEK)	125	140		ug/L		112	57 - 140
2-Hexanone	125	120		ug/L		96	65 - 127
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	71 - 125
Acetone	125	122		ug/L		97	56 - 142
Benzene	25.0	24.5		ug/L		98	71 - 124
Bromodichloromethane	25.0	24.8		ug/L		99	80 - 122
Bromoform	25.0	25.3		ug/L		101	61 - 132
Bromomethane	25.0	20.9		ug/L		84	55 - 144
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134
Carbon tetrachloride	25.0	21.1		ug/L		84	72 - 134
Chlorobenzene	25.0	23.4		ug/L		93	80 - 120
Chloroethane	25.0	21.8		ug/L		87	69 - 136
Chloroform	25.0	23.3		ug/L		93	73 - 127
Chloromethane	25.0	20.2		ug/L		81	68 - 124
cis-1,2-Dichloroethene	25.0	24.6		ug/L		98	74 - 124
cis-1,3-Dichloropropene	25.0	25.1		ug/L		100	74 - 124
Cyclohexane	25.0	21.9		ug/L		88	59 - 135
Dibromochloromethane	25.0	25.4		ug/L		101	75 - 125
Dichlorodifluoromethane	25.0	18.3		ug/L		73	59 - 135
Ethylbenzene	25.0	23.6		ug/L		94	77 - 123
Isopropylbenzene	25.0	23.0		ug/L		92	77 - 122
Methyl acetate	50.0	50.8		ug/L		102	74 - 133
Methyl tert-butyl ether	25.0	23.6		ug/L		94	77 - 120
Methylcyclohexane	25.0	21.8		ug/L		87	68 - 134
Methylene Chloride	25.0	24.7		ug/L		99	75 - 124
Styrene	25.0	22.8		ug/L		91	80 - 120
Tetrachloroethene	25.0	23.4		ug/L		93	74 - 122
Toluene	25.0	22.9		ug/L		92	80 - 122
trans-1,2-Dichloroethene	25.0	23.0		ug/L		92	73 - 127
trans-1,3-Dichloropropene	25.0	24.7		ug/L		99	80 - 120
Trichloroethene	25.0	23.6		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	25.1		ug/L		100	62 - 150
Vinyl chloride	25.0	21.5		ug/L		86	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	105		73 - 120
Dibromofluoromethane (Surr)	96		75 - 123
Toluene-d8 (Surr)	97		80 - 120

Lab Sample ID: 480-147056-29 MS

Matrix: Water

Analysis Batch: 452309

Client Sample ID: 4009-26

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	530		250	648	*	ug/L		46	73 - 126
1,1,2,2-Tetrachloroethane	10	U	250	235		ug/L		94	76 - 120

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-29 MS

Matrix: Water

Analysis Batch: 452309

Client Sample ID: 4009-26

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,2-Trichloro-1,2,2-trifluoroethane	12		250	243		ug/L		92	61 - 148
1,1,2-Trichloroethane	10	U	250	219		ug/L		88	76 - 122
1,1-Dichloroethane	49		250	264		ug/L		86	77 - 120
1,1-Dichloroethene	19		250	228		ug/L		84	66 - 127
1,2,3-Trimethylbenzene	10	U	250	259		ug/L		103	78 - 120
1,2,4-Trichlorobenzene	10	U	250	241		ug/L		96	79 - 122
1,2,4-Trimethylbenzene	10	U	250	233		ug/L		93	76 - 121
1,2-Dibromo-3-Chloropropane	10	U	250	224		ug/L		90	56 - 134
1,2-Dibromoethane	10	U	250	223		ug/L		89	77 - 120
1,2-Dichlorobenzene	10	U	250	236		ug/L		95	80 - 124
1,2-Dichloroethane	10	U	250	203		ug/L		81	75 - 120
1,2-Dichloropropane	10	U	250	237		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	10	U	250	233		ug/L		93	77 - 121
1,3-Dichlorobenzene	10	U	250	240		ug/L		96	77 - 120
1,4-Dichlorobenzene	10	U	250	234		ug/L		94	78 - 124
2-Butanone (MEK)	100	U	1250	1150		ug/L		92	57 - 140
2-Hexanone	50	U	1250	1080		ug/L		86	65 - 127
4-Methyl-2-pentanone (MIBK)	50	U	1250	1030		ug/L		83	71 - 125
Acetone	100	U	1250	947		ug/L		76	56 - 142
Benzene	10	U	250	230		ug/L		92	71 - 124
Bromodichloromethane	10	U	250	226		ug/L		90	80 - 122
Bromoform	10	U	250	227		ug/L		91	61 - 132
Bromomethane	10	U	250	202		ug/L		81	55 - 144
Carbon disulfide	10	U	250	190		ug/L		76	59 - 134
Carbon tetrachloride	10	U	250	209		ug/L		84	72 - 134
Chlorobenzene	10	U	250	218		ug/L		87	80 - 120
Chloroethane	10	U	250	214		ug/L		85	69 - 136
Chloroform	10	U	250	211		ug/L		85	73 - 127
Chloromethane	10	U	250	205		ug/L		82	68 - 124
cis-1,2-Dichloroethene	200		250	402		ug/L		82	74 - 124
cis-1,3-Dichloropropene	10	U	250	227		ug/L		91	74 - 124
Cyclohexane	10	U	250	222		ug/L		89	59 - 135
Dibromochloromethane	10	U	250	226		ug/L		90	75 - 125
Dichlorodifluoromethane	10	U	250	193		ug/L		77	59 - 135
Ethylbenzene	10	U	250	222		ug/L		89	77 - 123
Isopropylbenzene	10	U	250	231		ug/L		92	77 - 122
Methyl acetate	25	U	500	473		ug/L		95	74 - 133
Methyl tert-butyl ether	10	U	250	216		ug/L		86	77 - 120
Methylcyclohexane	10	U	250	224		ug/L		90	68 - 134
Methylene Chloride	10	U	250	237		ug/L		95	75 - 124
Styrene	10	U	250	219		ug/L		87	80 - 120
Tetrachloroethene	10	U	250	225		ug/L		90	74 - 122
Toluene	10	U	250	219		ug/L		88	80 - 122
trans-1,2-Dichloroethene	10	U	250	222		ug/L		89	73 - 127
trans-1,3-Dichloropropene	10	U	250	217		ug/L		87	80 - 120
Trichloroethene	130		250	332		ug/L		80	74 - 123
Trichlorofluoromethane	10	U	250	252		ug/L		101	62 - 150

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-29 MS

Matrix: Water

Analysis Batch: 452309

Client Sample ID: 4009-26

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vinyl chloride	14		250	236		ug/L		89	65 - 133
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	93		77 - 120						
4-Bromofluorobenzene (Surr)	103		73 - 120						
Dibromofluoromethane (Surr)	95		75 - 123						
Toluene-d8 (Surr)	94		80 - 120						

Lab Sample ID: 480-147056-29 MSD

Matrix: Water

Analysis Batch: 452309

Client Sample ID: 4009-26

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	530		250	673	*	ug/L		56	73 - 126	4	15
1,1,2,2-Tetrachloroethane	10	U	250	232		ug/L		93	76 - 120	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	12		250	239		ug/L		91	61 - 148	2	20
1,1,2-Trichloroethane	10	U	250	231		ug/L		93	76 - 122	5	15
1,1-Dichloroethane	49		250	270		ug/L		89	77 - 120	2	20
1,1-Dichloroethene	19		250	235		ug/L		86	66 - 127	3	16
1,2,3-Trimethylbenzene	10	U	250	258		ug/L		103	78 - 120	0	20
1,2,4-Trichlorobenzene	10	U	250	239		ug/L		96	79 - 122	1	20
1,2,4-Trimethylbenzene	10	U	250	231		ug/L		92	76 - 121	1	20
1,2-Dibromo-3-Chloropropane	10	U	250	207		ug/L		83	56 - 134	8	15
1,2-Dibromoethane	10	U	250	235		ug/L		94	77 - 120	5	15
1,2-Dichlorobenzene	10	U	250	231		ug/L		92	80 - 124	2	20
1,2-Dichloroethane	10	U	250	209		ug/L		83	75 - 120	3	20
1,2-Dichloropropane	10	U	250	237		ug/L		95	76 - 120	0	20
1,3,5-Trimethylbenzene	10	U	250	235		ug/L		94	77 - 121	1	20
1,3-Dichlorobenzene	10	U	250	237		ug/L		95	77 - 120	1	20
1,4-Dichlorobenzene	10	U	250	237		ug/L		95	78 - 124	1	20
2-Butanone (MEK)	100	U	1250	1150		ug/L		92	57 - 140	0	20
2-Hexanone	50	U	1250	1130		ug/L		90	65 - 127	5	15
4-Methyl-2-pentanone (MIBK)	50	U	1250	1090		ug/L		87	71 - 125	5	35
Acetone	100	U	1250	932		ug/L		75	56 - 142	2	15
Benzene	10	U	250	238		ug/L		95	71 - 124	4	13
Bromodichloromethane	10	U	250	231		ug/L		92	80 - 122	2	15
Bromoform	10	U	250	233		ug/L		93	61 - 132	2	15
Bromomethane	10	U	250	208		ug/L		83	55 - 144	3	15
Carbon disulfide	10	U	250	201		ug/L		80	59 - 134	6	15
Carbon tetrachloride	10	U	250	215		ug/L		86	72 - 134	2	15
Chlorobenzene	10	U	250	237		ug/L		95	80 - 120	8	25
Chloroethane	10	U	250	224		ug/L		90	69 - 136	5	15
Chloroform	10	U	250	219		ug/L		88	73 - 127	4	20
Chloromethane	10	U	250	210		ug/L		84	68 - 124	3	15
cis-1,2-Dichloroethene	200		250	405		ug/L		84	74 - 124	1	15
cis-1,3-Dichloropropene	10	U	250	231		ug/L		93	74 - 124	2	15
Cyclohexane	10	U	250	231		ug/L		92	59 - 135	4	20

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

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

Lab Sample ID: 480-147056-29 MSD

Matrix: Water

Analysis Batch: 452309

Client Sample ID: 4009-26

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Dibromochloromethane	10	U	250	246		ug/L		99	75 - 125	8	15
Dichlorodifluoromethane	10	U	250	187		ug/L		75	59 - 135	3	20
Ethylbenzene	10	U	250	236		ug/L		94	77 - 123	6	15
Isopropylbenzene	10	U	250	231		ug/L		92	77 - 122	0	20
Methyl acetate	25	U	500	489		ug/L		98	74 - 133	3	20
Methyl tert-butyl ether	10	U	250	221		ug/L		89	77 - 120	2	37
Methylcyclohexane	10	U	250	228		ug/L		91	68 - 134	2	20
Methylene Chloride	10	U	250	242		ug/L		97	75 - 124	2	15
Styrene	10	U	250	233		ug/L		93	80 - 120	6	20
Tetrachloroethene	10	U	250	246		ug/L		99	74 - 122	9	20
Toluene	10	U	250	229		ug/L		92	80 - 122	5	15
trans-1,2-Dichloroethene	10	U	250	231		ug/L		92	73 - 127	4	20
trans-1,3-Dichloropropene	10	U	250	234		ug/L		93	80 - 120	7	15
Trichloroethene	130		250	345		ug/L		85	74 - 123	4	16
Trichlorofluoromethane	10	U	250	256		ug/L		102	62 - 150	1	20
Vinyl chloride	14		250	240		ug/L		90	65 - 133	2	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	92		77 - 120
4-Bromofluorobenzene (Surr)	108		73 - 120
Dibromofluoromethane (Surr)	95		75 - 123
Toluene-d8 (Surr)	98		80 - 120

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

GC/MS VOA

Analysis Batch: 451978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-147056-1	4009-7	Total/NA	Water	8260C	
480-147056-2	4009-8	Total/NA	Water	8260C	
480-147056-3	Well 1-2A	Total/NA	Water	8260C	
480-147056-4	4009-9	Total/NA	Water	8260C	
480-147056-5	4009-10	Total/NA	Water	8260C	
480-147056-6	4009-11	Total/NA	Water	8260C	
480-147056-7	4009-12	Total/NA	Water	8260C	
480-147056-8	4009-13	Total/NA	Water	8260C	
480-147056-9	4009-13A	Total/NA	Water	8260C	
480-147056-10	4009-14	Total/NA	Water	8260C	
480-147056-11	4009-15	Total/NA	Water	8260C	
480-147056-12	4009-16	Total/NA	Water	8260C	
480-147056-13	4009-16A	Total/NA	Water	8260C	
480-147056-14	4009-18	Total/NA	Water	8260C	
480-147056-15	4009-19	Total/NA	Water	8260C	
480-147056-16	4009-21	Total/NA	Water	8260C	
480-147056-17	4009-22	Total/NA	Water	8260C	
MB 480-451978/7	Method Blank	Total/NA	Water	8260C	
LCS 480-451978/5	Lab Control Sample	Total/NA	Water	8260C	
480-147056-2 MS	4009-8	Total/NA	Water	8260C	
480-147056-2 MSD	4009-8	Total/NA	Water	8260C	

Analysis Batch: 452039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-147056-6 - DL	4009-11	Total/NA	Water	8260C	
480-147056-18	4009-27S	Total/NA	Water	8260C	
480-147056-19	4009-27I	Total/NA	Water	8260C	
480-147056-20	4009-27D	Total/NA	Water	8260C	
480-147056-21	4009-28	Total/NA	Water	8260C	
480-147056-22	4009-29S	Total/NA	Water	8260C	
480-147056-23	4009-29I	Total/NA	Water	8260C	
480-147056-25	4009-30	Total/NA	Water	8260C	
MB 480-452039/7	Method Blank	Total/NA	Water	8260C	
LCS 480-452039/5	Lab Control Sample	Total/NA	Water	8260C	
480-147056-23 MS	4009-29I	Total/NA	Water	8260C	
480-147056-23 MSD	4009-29I	Total/NA	Water	8260C	

Analysis Batch: 452195

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-147056-22 - DL	4009-29S	Total/NA	Water	8260C	
480-147056-24	4009-29D	Total/NA	Water	8260C	
480-147056-26	4009-30A	Total/NA	Water	8260C	
480-147056-27	DUP1	Total/NA	Water	8260C	
480-147056-28	DUP2	Total/NA	Water	8260C	
480-147056-30	Well 1-1	Total/NA	Water	8260C	
480-147056-31	Well 1-3	Total/NA	Water	8260C	
480-147056-32	Well 1-3POST	Total/NA	Water	8260C	
480-147056-33	Trip Blank	Total/NA	Water	8260C	
480-147056-34	4009-11A	Total/NA	Water	8260C	
MB 480-452195/7	Method Blank	Total/NA	Water	8260C	
LCS 480-452195/5	Lab Control Sample	Total/NA	Water	8260C	

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Analysis Batch: 452221

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-147056-28 - DL	DUP2	Total/NA	Water	8260C	
480-147056-29	4009-26	Total/NA	Water	8260C	
MB 480-452221/7	Method Blank	Total/NA	Water	8260C	
LCS 480-452221/5	Lab Control Sample	Total/NA	Water	8260C	
480-147056-28 MS	DUP2	Total/NA	Water	8260C	
480-147056-28 MSD	DUP2	Total/NA	Water	8260C	

Analysis Batch: 452309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-147056-29 - DL	4009-26	Total/NA	Water	8260C	
MB 480-452309/7	Method Blank	Total/NA	Water	8260C	
LCS 480-452309/5	Lab Control Sample	Total/NA	Water	8260C	
480-147056-29 MS	4009-26	Total/NA	Water	8260C	
480-147056-29 MSD	4009-26	Total/NA	Water	8260C	

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-7

Date Collected: 12/19/18 13:48

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 21:09	S1V	TAL BUF

Client Sample ID: 4009-8

Date Collected: 12/19/18 13:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		40	451978	12/20/18 21:32	S1V	TAL BUF

Client Sample ID: Well 1-2A

Date Collected: 12/19/18 10:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 21:55	S1V	TAL BUF

Client Sample ID: 4009-9

Date Collected: 12/19/18 13:07

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 22:18	S1V	TAL BUF

Client Sample ID: 4009-10

Date Collected: 12/19/18 13:14

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 22:41	S1V	TAL BUF

Client Sample ID: 4009-11

Date Collected: 12/19/18 13:20

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 23:04	S1V	TAL BUF
Total/NA	Analysis	8260C	DL	4	452039	12/21/18 13:10	NMC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-12

Lab Sample ID: 480-147056-7

Date Collected: 12/19/18 12:06

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 23:27	S1V	TAL BUF

Client Sample ID: 4009-13

Lab Sample ID: 480-147056-8

Date Collected: 12/19/18 12:42

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/20/18 23:50	S1V	TAL BUF

Client Sample ID: 4009-13A

Lab Sample ID: 480-147056-9

Date Collected: 12/19/18 12:45

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 00:13	S1V	TAL BUF

Client Sample ID: 4009-14

Lab Sample ID: 480-147056-10

Date Collected: 12/19/18 10:20

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 00:36	S1V	TAL BUF

Client Sample ID: 4009-15

Lab Sample ID: 480-147056-11

Date Collected: 12/19/18 11:24

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 00:59	S1V	TAL BUF

Client Sample ID: 4009-16

Lab Sample ID: 480-147056-12

Date Collected: 12/19/18 11:47

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 01:22	S1V	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-16A

Lab Sample ID: 480-147056-13

Date Collected: 12/19/18 11:50

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 01:45	S1V	TAL BUF

Client Sample ID: 4009-18

Lab Sample ID: 480-147056-14

Date Collected: 12/19/18 10:57

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 02:08	S1V	TAL BUF

Client Sample ID: 4009-19

Lab Sample ID: 480-147056-15

Date Collected: 12/19/18 11:15

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 02:31	S1V	TAL BUF

Client Sample ID: 4009-21

Lab Sample ID: 480-147056-16

Date Collected: 12/19/18 11:08

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 02:54	S1V	TAL BUF

Client Sample ID: 4009-22

Lab Sample ID: 480-147056-17

Date Collected: 12/19/18 10:10

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	451978	12/21/18 03:17	S1V	TAL BUF

Client Sample ID: 4009-27S

Lab Sample ID: 480-147056-18

Date Collected: 12/19/18 12:53

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452039	12/21/18 13:33	NMC	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-27I

Lab Sample ID: 480-147056-19

Date Collected: 12/19/18 12:55

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452039	12/21/18 13:56	NMC	TAL BUF

Client Sample ID: 4009-27D

Lab Sample ID: 480-147056-20

Date Collected: 12/19/18 12:57

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452039	12/21/18 14:19	NMC	TAL BUF

Client Sample ID: 4009-28

Lab Sample ID: 480-147056-21

Date Collected: 12/19/18 10:00

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452039	12/21/18 14:43	NMC	TAL BUF

Client Sample ID: 4009-29S

Lab Sample ID: 480-147056-22

Date Collected: 12/19/18 12:25

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	452039	12/21/18 15:06	NMC	TAL BUF
Total/NA	Analysis	8260C	DL	20	452195	12/21/18 22:00	OMI	TAL BUF

Client Sample ID: 4009-29I

Lab Sample ID: 480-147056-23

Date Collected: 12/19/18 12:29

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		20	452039	12/21/18 15:29	NMC	TAL BUF

Client Sample ID: 4009-29D

Lab Sample ID: 480-147056-24

Date Collected: 12/19/18 12:33

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/21/18 22:23	OMI	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: 4009-30

Date Collected: 12/19/18 11:35

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-25

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452039	12/21/18 16:15	NMC	TAL BUF

Client Sample ID: 4009-30A

Date Collected: 12/19/18 11:38

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-26

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/21/18 22:45	OMI	TAL BUF

Client Sample ID: DUP1

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/21/18 23:08	OMI	TAL BUF

Client Sample ID: DUP2

Date Collected: 12/19/18 00:00

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/21/18 23:32	OMI	TAL BUF
Total/NA	Analysis	8260C	DL	10	452221	12/22/18 11:35	AMM	TAL BUF

Client Sample ID: 4009-26

Date Collected: 12/19/18 13:37

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		5	452221	12/22/18 11:58	AMM	TAL BUF
Total/NA	Analysis	8260C	DL	10	452309	12/24/18 14:02	AMM	TAL BUF

Client Sample ID: Well 1-1

Date Collected: 12/19/18 09:50

Date Received: 12/20/18 01:00

Lab Sample ID: 480-147056-30

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		4	452195	12/22/18 00:18	OMI	TAL BUF

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Client Sample ID: Well 1-3

Lab Sample ID: 480-147056-31

Date Collected: 12/19/18 10:48

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/22/18 00:40	OMI	TAL BUF

Client Sample ID: Well 1-3POST

Lab Sample ID: 480-147056-32

Date Collected: 12/19/18 10:45

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/22/18 01:03	OMI	TAL BUF

Client Sample ID: Trip Blank

Lab Sample ID: 480-147056-33

Date Collected: 12/19/18 00:00

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/22/18 01:27	OMI	TAL BUF

Client Sample ID: 4009-11A

Lab Sample ID: 480-147056-34

Date Collected: 12/19/18 13:17

Matrix: Water

Date Received: 12/20/18 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	452195	12/22/18 01:50	OMI	TAL BUF

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8260C		Water	1,2,3-Trimethylbenzene

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

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

Laboratory References:

TAL BUF = TestAmerica Buffalo, 10 Hazelwood Drive, Amherst, NY 14228-2298, TEL (716)691-2600

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-147056-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-147056-1	4009-7	Water	12/19/18 13:48	12/20/18 01:00
480-147056-2	4009-8	Water	12/19/18 13:35	12/20/18 01:00
480-147056-3	Well 1-2A	Water	12/19/18 10:50	12/20/18 01:00
480-147056-4	4009-9	Water	12/19/18 13:07	12/20/18 01:00
480-147056-5	4009-10	Water	12/19/18 13:14	12/20/18 01:00
480-147056-6	4009-11	Water	12/19/18 13:20	12/20/18 01:00
480-147056-7	4009-12	Water	12/19/18 12:06	12/20/18 01:00
480-147056-8	4009-13	Water	12/19/18 12:42	12/20/18 01:00
480-147056-9	4009-13A	Water	12/19/18 12:45	12/20/18 01:00
480-147056-10	4009-14	Water	12/19/18 10:20	12/20/18 01:00
480-147056-11	4009-15	Water	12/19/18 11:24	12/20/18 01:00
480-147056-12	4009-16	Water	12/19/18 11:47	12/20/18 01:00
480-147056-13	4009-16A	Water	12/19/18 11:50	12/20/18 01:00
480-147056-14	4009-18	Water	12/19/18 10:57	12/20/18 01:00
480-147056-15	4009-19	Water	12/19/18 11:15	12/20/18 01:00
480-147056-16	4009-21	Water	12/19/18 11:08	12/20/18 01:00
480-147056-17	4009-22	Water	12/19/18 10:10	12/20/18 01:00
480-147056-18	4009-27S	Water	12/19/18 12:53	12/20/18 01:00
480-147056-19	4009-27I	Water	12/19/18 12:55	12/20/18 01:00
480-147056-20	4009-27D	Water	12/19/18 12:57	12/20/18 01:00
480-147056-21	4009-28	Water	12/19/18 10:00	12/20/18 01:00
480-147056-22	4009-29S	Water	12/19/18 12:25	12/20/18 01:00
480-147056-23	4009-29I	Water	12/19/18 12:29	12/20/18 01:00
480-147056-24	4009-29D	Water	12/19/18 12:33	12/20/18 01:00
480-147056-25	4009-30	Water	12/19/18 11:35	12/20/18 01:00
480-147056-26	4009-30A	Water	12/19/18 11:38	12/20/18 01:00
480-147056-27	DUP1	Water	12/19/18 00:00	12/20/18 01:00
480-147056-28	DUP2	Water	12/19/18 00:00	12/20/18 01:00
480-147056-29	4009-26	Water	12/19/18 13:37	12/20/18 01:00
480-147056-30	Well 1-1	Water	12/19/18 09:50	12/20/18 01:00
480-147056-31	Well 1-3	Water	12/19/18 10:48	12/20/18 01:00
480-147056-32	Well 1-3POST	Water	12/19/18 10:45	12/20/18 01:00
480-147056-33	Trip Blank	Water	12/19/18 00:00	12/20/18 01:00
480-147056-34	4009-11A	Water	12/19/18 13:17	12/20/18 01:00

Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300(Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site: Town of Vestal		Sample: A. Thomas & S. Molins Phone: (518) 250-7300 Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): COC No: 480-122044-27171.1 Page: Page 1 of 4 Job #: Analysis Requested  480-147056 COC		Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify) Other: Special Instructions/Note:																																																																																																													
Due Date Requested: TAT Requested (days): Standard		PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8240C - (MOD) TCL list VOA w/MTMS 8260C - (MOD) TCL list OL14.2																																																																																																													
Sample Identification <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=grab)</th> <th>Matrix (W=water, S=solid, Or=sewage, A=Air)</th> <th>Field Filtered Sample (Yes or No)</th> <th>Perform MS/MSD (Yes or No)</th> <th>8240C - (MOD) TCL list VOA w/MTMS</th> <th>8260C - (MOD) TCL list OL14.2</th> <th>Total Number of Containers</th> </tr> </thead> <tbody> <tr> <td>4009-7</td> <td>12-19-2018</td> <td>1348</td> <td>G</td> <td>Water</td> <td>N</td> <td>N</td> <td>X</td> <td>3</td> </tr> <tr> <td>4009-8</td> <td></td> <td>1335</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Well 1-2A</td> <td></td> <td>1050</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-9</td> <td></td> <td>1307</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-10</td> <td></td> <td>1314</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-11</td> <td></td> <td>1320</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-12</td> <td></td> <td>1206</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-13</td> <td></td> <td>1242</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-13A</td> <td></td> <td>1245</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-14</td> <td></td> <td>1020</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4009-15</td> <td></td> <td>1124</td> <td></td> <td>Water</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, Or=sewage, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8240C - (MOD) TCL list VOA w/MTMS	8260C - (MOD) TCL list OL14.2	Total Number of Containers	4009-7	12-19-2018	1348	G	Water	N	N	X	3	4009-8		1335		Water					Well 1-2A		1050		Water					4009-9		1307		Water					4009-10		1314		Water					4009-11		1320		Water					4009-12		1206		Water					4009-13		1242		Water					4009-13A		1245		Water					4009-14		1020		Water					4009-15		1124		Water					Possible Hazard Identification ☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, IV, Other (specify)		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months Special Instructions/QC Requirements:	
Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, Or=sewage, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8240C - (MOD) TCL list VOA w/MTMS	8260C - (MOD) TCL list OL14.2	Total Number of Containers																																																																																																									
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4009-15		1124		Water																																																																																																													
Empty Kit Relinquished by: Relinquished by: <i>Cathy Thomas</i> Relinquished by: <i>Katie Bidwell</i> Relinquished by:		Date: Date/Time: 12-19-2018 1628 Date/Time: 12-19-18 1800 Date/Time:		Time: Company: <i>ARCADIS</i> Company: <i>TA</i> Company:		Method of Shipment: Received by: <i>Katie Bidwell</i> Received by: <i>Katie Bidwell</i> Received by:		Date/Time: 12-19-18 1628 Date/Time: 12-20-18 0100 Date/Time:		Company: <i>TA</i> Company: <i>TA</i> Company:																																																																																																							
Custody Seals Intact: ☒ Yes ☐ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:		31 1.4		#3 #3		Ver: 08/04/2016																																																																																																							

Chain of Custody Record

Client Information		Sample: <u>A. Thomas & S. Mullins</u>		Lab PM: Stone, Judy L.		Carrier Tracking No(s):		COC No: 480-122044-27171.2				
Client Contact: Ms. Katie Bidwell		Phone: <u>(518) 250-7300</u>		E-Mail: judy.stone@testamericainc.com				Page: Page 2 of 4				
Company: ARCADIS U.S. Inc				Analysis Requested								
Address: 855 Route 146 Suite 210		Due Date Requested:		Field Filtered Sample (Yes or No) Perform MS/MSD (Yes or No) 8260C - (MOD) TCL list VOA w/MTBAs 8260C - (MOD) TCL list OL/MO4.2								
City: Clifton Park		TAT Requested (days): <u>Standard</u>										
State, Zip: NY, 12065												
Phone: 518-250-7300(Tel)		PO #: Project 00266401.0000										
Email: katie.bidwell@arcadis-us.com		WO #: Contract D007618										
Project Name: NYSDEC-Standby VESTAL		Project #: 48005198		Total Number of containers								
Site: <u>Town of Vestal</u>		SSOW#:										
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=soils/sludg, BT=Tissue, A=Air)	Preservation Code:						Special Instructions/Note:	
					X	X	A	N				
4009-16	<u>12-19-2018</u>	<u>1147</u>	G	Water	N	N	X					3
4009-16A		<u>1150</u>		Water								
4009-18		<u>1057</u>		Water								
4009-19		<u>1115</u>		Water								
4009-21		<u>1108</u>		Water								
4009-22		<u>1010</u>		Water								
4009-27S		<u>1253</u>		Water								
4009-27I		<u>1255</u>		Water								
4009-27D		<u>1257</u>		Water								
4009-28		<u>1000</u>		Water								
4009-29S		<u>1225</u>		Water								
Possible Hazard Identification					Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)							
☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					☐ Return To Client ☒ Disposal By Lab ☐ Archive For _____ Months							
Deliverable Requested: I, II, III, IV, Other (specify)					Special Instructions/QC Requirements:							
Empty Kit Relinquished by:			Date:	Time:			Method of Shipment:					
Relinquished by: <u>Cathy Thomas</u>		Date/Time: <u>12-19-2018 1628</u>	Company: <u>ARCADIS</u>		Received by: <u>Rafael Lopez</u>		Date/Time: <u>12-19-18 1628</u>		Company: <u>TA</u>			
Relinquished by: <u>Karl Zocher</u>		Date/Time: <u>12-19-18 1500</u>	Company: <u>TA</u>		Received by: <u>Melanie</u>		Date/Time: <u>12-20-18 0100</u>		Company:			
Relinquished by:		Date/Time:	Company:		Received by:		Date/Time:		Company:			
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: <u>3.1 2 #3</u>								

Ver. 08/04/2016

Chain of Custody Record

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-147056-1

Login Number: 147056

List Source: TestAmerica Buffalo

List Number: 1

Creator: Velickovic, Zoran

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is 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 sample IDs on the containers 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	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	False	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 10/22/2018
Reported: 10/31/2018

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-01

Collected By: Julian Motola
Collection Date: 10/22/2018 10:46

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Bromodichloromethane	<0.50		0.50	ug/L			10/29/18 2007	RSD
Bromoform	<0.50		0.50	ug/L			10/29/18 2007	RSD
Bromomethane	<0.50		0.50	ug/L			10/29/18 2007	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Chloroform	<0.50		0.50	ug/L			10/29/18 2007	RSD
Chloromethane	<0.50		0.50	ug/L			10/29/18 2007	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Dibromochloromethane	<0.50		0.50	ug/L			10/29/18 2007	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-01

Collected By: Julian Motola
Collection Date: 10/22/2018 10:46

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Styrene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			10/29/18 2007	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2007	RSD
Surrogate: 4-Bromofluorobenzene	93.2	Limit: 70-130		% Rec			10/29/18 2007	RSD
Surrogate: 1,2-Dichlorobenzene-d4	93.8	Limit: 70-130		% Rec			10/29/18 2007	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-02

Collected By: Julian Motola
Collection Date: 10/22/2018 10:48

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Bromodichloromethane	<0.50		0.50	ug/L			10/29/18 2031	RSD
Bromoform	<0.50		0.50	ug/L			10/29/18 2031	RSD
Bromomethane	<0.50		0.50	ug/L			10/29/18 2031	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Chloroform	<0.50		0.50	ug/L			10/29/18 2031	RSD
Chloromethane	<0.50		0.50	ug/L			10/29/18 2031	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Dibromochloromethane	<0.50		0.50	ug/L			10/29/18 2031	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J8J1441-02

Collected By: Julian Motola

Collection Date: 10/22/2018 10:48

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			10/29/18 2031	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2031	RSD
Surrogate: 4-Bromofluorobenzene	95.4	Limit: 70-130		% Rec			10/29/18 2031	RSD
Surrogate: 1,2-Dichlorobenzene-d4	92.8	Limit: 70-130		% Rec			10/29/18 2031	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-03

Collected By: Julian Motola
Collection Date: 10/22/2018 10:52

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Bromodichloromethane	<0.50		0.50	ug/L			10/29/18 2055	RSD
Bromoform	<0.50		0.50	ug/L			10/29/18 2055	RSD
Bromomethane	<0.50		0.50	ug/L			10/29/18 2055	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Chloroform	<0.50		0.50	ug/L			10/29/18 2055	RSD
Chloromethane	<0.50		0.50	ug/L			10/29/18 2055	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Dibromochloromethane	<0.50		0.50	ug/L			10/29/18 2055	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-03

Collected By: Julian Motola
Collection Date: 10/22/2018 10:52

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			10/29/18 2055	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2055	RSD
Surrogate: 4-Bromofluorobenzene	96.6	Limit: 70-130		% Rec			10/29/18 2055	RSD
Surrogate: 1,2-Dichlorobenzene-d4	96.3	Limit: 70-130		% Rec			10/29/18 2055	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-04

Collected By: Julian Motola
Collection Date: 10/22/2018 10:54

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Bromodichloromethane	<0.50		0.50	ug/L			10/29/18 2118	RSD
Bromoform	<0.50		0.50	ug/L			10/29/18 2118	RSD
Bromomethane	<0.50		0.50	ug/L			10/29/18 2118	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Chloroform	<0.50		0.50	ug/L			10/29/18 2118	RSD
Chloromethane	<0.50		0.50	ug/L			10/29/18 2118	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Dibromochloromethane	<0.50		0.50	ug/L			10/29/18 2118	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-04

Collected By: Julian Motola
Collection Date: 10/22/2018 10:54

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			10/29/18 2118	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2118	RSD
Surrogate: 4-Bromofluorobenzene	99.3	Limit: 70-130		% Rec			10/29/18 2118	RSD
Surrogate: 1,2-Dichlorobenzene-d4	94.0	Limit: 70-130		% Rec			10/29/18 2118	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-07

Collected By: Julian Motola
Collection Date: 10/19/2018 16:00

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Bromodichloromethane	<0.50		0.50	ug/L			10/29/18 2230	RSD
Bromoform	<0.50		0.50	ug/L			10/29/18 2230	RSD
Bromomethane	<0.50		0.50	ug/L			10/29/18 2230	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Chloroform	<0.50		0.50	ug/L			10/29/18 2230	RSD
Chloromethane	<0.50		0.50	ug/L			10/29/18 2230	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Dibromochloromethane	<0.50		0.50	ug/L			10/29/18 2230	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Methylene chloride (Dichloromethane)	0.84	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8J1441

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8J1441-07

Collected By: Julian Motola
Collection Date: 10/19/2018 16:00

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			10/29/18 2230	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			10/29/18 2230	RSD
Surrogate: 4-Bromofluorobenzene	102	Limit: 70-130		% Rec			10/29/18 2230	RSD
Surrogate: 1,2-Dichlorobenzene-d4	99.2	Limit: 70-130		% Rec			10/29/18 2230	RSD

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

MCL: US EPA Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
11549

New York State Department of Health

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 10/31/2018 17:30

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

Chain of Custody

J8J1441**TAT 7 days**

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 10/22/2018
Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8J1441-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time:

10/22/18 10:46

AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-2A Finished

Lab Sample ID: J8J1441-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time:

10/22/18 10:48

AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear Vial, Ascorbic Acid, HCL

V-40ml Clear Vial, Ascorbic Acid, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-3 Raw

Lab Sample ID: J8J1441-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time:

10/22/18 10:52

AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-3 Finished

Lab Sample ID: J8J1441-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time:

10/22/18 10:54



Microbac Laboratories, Inc., New York Division
Chain of Custody
J8J1441

Town of Vestal**Project Name: Town of Vestal Monthly/Quarterly**

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 10/22/2018
Field Route ID: NY-Route 1 Bing

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Raw**Lab Sample ID: J8J1441-05****Matrix: Drinking Water****Type: Grab****Sampled Date & Time:** 10/22/18 11:12

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Finished**Lab Sample ID: J8J1441-06****Matrix: Drinking Water****Type: Grab****Sampled Date & Time:** 10/22/18 11:15

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: Trip Blank**Lab Sample ID: J8J1441-07****Matrix: Drinking Water****Type: Trip Blank****Sampled Date & Time:** 10/19/18 16:00

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A

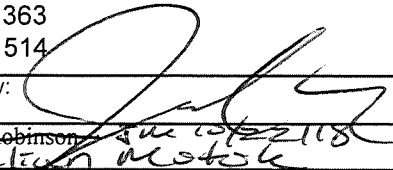
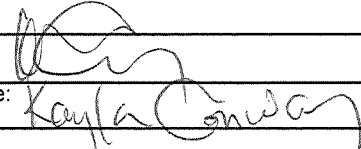


Microbac Laboratories, Inc., New York Division
Chain of Custody
J8J1441

Town of Vestal
Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
 701 Vestal Parkway West
 Vestal, NY 13850-1363
 Phone: (607) 748-1514

Project / PO Number: N/A
 Tentatively Scheduled: 10/22/2018
 Field Route ID: NY-Route 1 Bing

Sampled/Relinquished by: 	Date/Time: 10/22/18 1540	Received by: 
Printed Name: Bethany Robinson		Printed Name: Kayla Conway
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: Yes / No Temp 3.9 °C Total Containers: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 11/30/2018
Reported: 12/12/2018

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-01

Collected By: Julian Motola
Collection Date: 11/30/2018 9:32

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/07/18 1349	RSD
Bromoform	<0.50		0.50	ug/L			12/07/18 1349	RSD
Bromomethane	<0.50		0.50	ug/L			12/07/18 1349	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Chloroform	<0.50		0.50	ug/L			12/07/18 1349	RSD
Chloromethane	<0.50		0.50	ug/L			12/07/18 1349	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/07/18 1349	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD

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CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-01

Collected By: Julian Motola
Collection Date: 11/30/2018 9:32

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/07/18 1349	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1349	RSD
Surrogate: 4-Bromofluorobenzene	95.0	Limit: 70-130		% Rec			12/07/18 1349	RSD
Surrogate: 1,2-Dichlorobenzene-d4	92.6	Limit: 70-130		% Rec			12/07/18 1349	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-02

Collected By: Julian Motola
Collection Date: 11/30/2018 9:36

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/07/18 1413	RSD
Bromoform	<0.50		0.50	ug/L			12/07/18 1413	RSD
Bromomethane	<0.50		0.50	ug/L			12/07/18 1413	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Chloroform	<0.50		0.50	ug/L			12/07/18 1413	RSD
Chloromethane	<0.50		0.50	ug/L			12/07/18 1413	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/07/18 1413	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD

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CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J8K1566-02

Collected By: Julian Motola

Collection Date: 11/30/2018 9:36

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/07/18 1413	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1413	RSD
Surrogate: 4-Bromofluorobenzene	92.2	Limit: 70-130		% Rec			12/07/18 1413	RSD
Surrogate: 1,2-Dichlorobenzene-d4	90.0	Limit: 70-130		% Rec			12/07/18 1413	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-03

Collected By: Julian Motola
Collection Date: 11/30/2018 9:40

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/07/18 1436	RSD
Bromoform	<0.50		0.50	ug/L			12/07/18 1436	RSD
Bromomethane	<0.50		0.50	ug/L			12/07/18 1436	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Chloroform	<0.50		0.50	ug/L			12/07/18 1436	RSD
Chloromethane	<0.50		0.50	ug/L			12/07/18 1436	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/07/18 1436	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-03

Collected By: Julian Motola
Collection Date: 11/30/2018 9:40

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/07/18 1436	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1436	RSD
Surrogate: 4-Bromofluorobenzene	90.2	Limit: 70-130		% Rec			12/07/18 1436	RSD
Surrogate: 1,2-Dichlorobenzene-d4	87.6	Limit: 70-130		% Rec			12/07/18 1436	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-04

Collected By: Julian Motola
Collection Date: 11/30/2018 9:46

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/07/18 1500	RSD
Bromoform	<0.50		0.50	ug/L			12/07/18 1500	RSD
Bromomethane	<0.50		0.50	ug/L			12/07/18 1500	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Chloroform	<0.50		0.50	ug/L			12/07/18 1500	RSD
Chloromethane	<0.50		0.50	ug/L			12/07/18 1500	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/07/18 1500	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-04

Collected By: Julian Motola
Collection Date: 11/30/2018 9:46

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/07/18 1500	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1500	RSD
Surrogate: 4-Bromofluorobenzene	93.0	Limit: 70-130		% Rec			12/07/18 1500	RSD
Surrogate: 1,2-Dichlorobenzene-d4	91.0	Limit: 70-130		% Rec			12/07/18 1500	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-07

Collected By: Julian Motola
Collection Date: 11/29/2018 17:00

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/07/18 1611	RSD
Bromoform	<0.50		0.50	ug/L			12/07/18 1611	RSD
Bromomethane	<0.50		0.50	ug/L			12/07/18 1611	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Chloroform	<0.50		0.50	ug/L			12/07/18 1611	RSD
Chloromethane	<0.50		0.50	ug/L			12/07/18 1611	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/07/18 1611	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8K1566

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8K1566-07

Collected By: Julian Motola
Collection Date: 11/29/2018 17:00

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/07/18 1611	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/07/18 1611	RSD
Surrogate: 4-Bromofluorobenzene	91.4	Limit: 70-130		% Rec			12/07/18 1611	RSD
Surrogate: 1,2-Dichlorobenzene-d4	89.9	Limit: 70-130		% Rec			12/07/18 1611	RSD

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

MCL: US EPA Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
11549

New York State Department of Health

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Christine Pechacek
Environmental Operations Manager
Reported: 12/12/2018 17:23

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Microbac Laboratories, Inc., New York Division
Chain of Custody
J8K1566

TAT 7 days

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 11/13/2018
Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8K1566-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 9:32AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-2A Finished

Lab Sample ID: J8K1566-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 9:36AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear Vial, Ascorbic Acid, HCL

V-40ml Clear Vial, Ascorbic Acid, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-3 Raw

Lab Sample ID: J8K1566-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 9:40AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rv 4.1

Container(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

14.00 days

Designator

A

B

Client Sample ID: 1-3 Finished

Lab Sample ID: J8K1566-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 9:46



Microbac Laboratories, Inc., New York Division
Chain of Custody
J8K1566

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 11/13/2018
Field Route ID: NY-Route 1 Bing

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Raw

Lab Sample ID: J8K1566-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 10:01

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Finished

Lab Sample ID: J8K1566-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 11/30/18 10:06

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: Trip Blank

Lab Sample ID: J8K1566-07

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 11/29/18 1700

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A



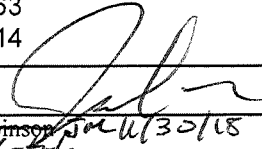
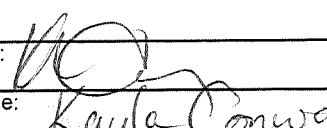
Microbac Laboratories, Inc., New York Division
Chain of Custody
J8K1566

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 11/13/2018
Field Route ID: NY-Route 1 Bing

Sampled/Relinquished by: 	Date/Time: 11/30/18 1445	Received by: 
Printed Name: Bethany Robinson		Printed Name: Kayla Conway
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: ☒ Yes / No Temp 1.9 °C Total Containers: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 12/17/2018
Reported: 12/27/2018

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-01

Collected By: Julian Motola
Collection Date: 12/17/2018 10:31

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/19/18 1702	RSD
Bromoform	<0.50		0.50	ug/L			12/19/18 1702	RSD
Bromomethane	<0.50		0.50	ug/L			12/19/18 1702	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Chloroform	<0.50		0.50	ug/L			12/19/18 1702	RSD
Chloromethane	<0.50		0.50	ug/L			12/19/18 1702	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/19/18 1702	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-01

Collected By: Julian Motola
Collection Date: 12/17/2018 10:31

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/19/18 1702	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1702	RSD
Surrogate: 4-Bromofluorobenzene	101	Limit: 70-130		% Rec			12/19/18 1702	RSD
Surrogate: 1,2-Dichlorobenzene-d4	98.4	Limit: 70-130		% Rec			12/19/18 1702	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-02

Collected By: Julian Motola
Collection Date: 12/17/2018 10:33

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/19/18 1726	RSD
Bromoform	<0.50		0.50	ug/L			12/19/18 1726	RSD
Bromomethane	<0.50		0.50	ug/L			12/19/18 1726	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Chloroform	<0.50		0.50	ug/L			12/19/18 1726	RSD
Chloromethane	<0.50		0.50	ug/L			12/19/18 1726	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/19/18 1726	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J8L1045-02

Collected By: Julian Motola

Collection Date: 12/17/2018 10:33

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/19/18 1726	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1726	RSD
Surrogate: 4-Bromofluorobenzene	105	Limit: 70-130		% Rec			12/19/18 1726	RSD
Surrogate: 1,2-Dichlorobenzene-d4	98.9	Limit: 70-130		% Rec			12/19/18 1726	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-03

Collected By: Julian Motola
Collection Date: 12/17/2018 10:44

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/19/18 1750	RSD
Bromoform	<0.50		0.50	ug/L			12/19/18 1750	RSD
Bromomethane	<0.50		0.50	ug/L			12/19/18 1750	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Chloroform	<0.50		0.50	ug/L			12/19/18 1750	RSD
Chloromethane	<0.50		0.50	ug/L			12/19/18 1750	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/19/18 1750	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-03

Collected By: Julian Motola
Collection Date: 12/17/2018 10:44

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/19/18 1750	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1750	RSD
Surrogate: 4-Bromofluorobenzene	100	Limit: 70-130		% Rec			12/19/18 1750	RSD
Surrogate: 1,2-Dichlorobenzene-d4	98.7	Limit: 70-130		% Rec			12/19/18 1750	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-04

Collected By: Julian Motola
Collection Date: 12/17/2018 10:46

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/19/18 1814	RSD
Bromoform	<0.50		0.50	ug/L			12/19/18 1814	RSD
Bromomethane	<0.50		0.50	ug/L			12/19/18 1814	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Chloroform	<0.50		0.50	ug/L			12/19/18 1814	RSD
Chloromethane	<0.50		0.50	ug/L			12/19/18 1814	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/19/18 1814	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-04

Collected By: Julian Motola
Collection Date: 12/17/2018 10:46

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/19/18 1814	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/19/18 1814	RSD
Surrogate: 4-Bromofluorobenzene	95.2	Limit: 70-130		% Rec			12/19/18 1814	RSD
Surrogate: 1,2-Dichlorobenzene-d4	93.5	Limit: 70-130		% Rec			12/19/18 1814	RSD



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-07

Collected By: Julian Motola
Collection Date: 12/17/2018 14:00

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Method: EPA 524.2, Rv 4.1								
Benzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Bromobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Bromochloromethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Bromodichloromethane	<0.50		0.50	ug/L			12/21/18 1458	RSD
Bromoform	<0.50		0.50	ug/L			12/21/18 1458	RSD
Bromomethane	<0.50		0.50	ug/L			12/21/18 1458	RSD
tert-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
sec-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
n-Butylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Carbon tetrachloride	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Chlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Chloroethane (Ethyl chloride)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Chloroform	<0.50		0.50	ug/L			12/21/18 1458	RSD
Chloromethane	<0.50		0.50	ug/L			12/21/18 1458	RSD
2-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
4-Chlorotoluene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Dibromochloromethane	<0.50		0.50	ug/L			12/21/18 1458	RSD
Dibromomethane (Methylene bromide)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,4-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,3-Dichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Dichlorodifluoromethane (Freon-12)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1-Dichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
trans-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
cis-1,2-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1-Dichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,3-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
2,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2-Dichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
trans-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
cis-1,3-Dichloropropene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Ethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Hexachlorobutadiene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Isopropylbenzene (Cumene)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
4-Isopropyltoluene (p-Isopropyltoluene)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Methyl tert-butyl ether (MTBE)	<0.50	10 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Methylene chloride (Dichloromethane)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Naphthalene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
n-Propylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8L1045

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J8L1045-07

Collected By: Julian Motola
Collection Date: 12/17/2018 14:00

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Analyst
Styrene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1,1,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1,2,2-Tetrachloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Tetrachloroethene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Toluene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2,4-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2,3-Trichlorobenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1,1-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,1,2-Trichloroethane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Trichloroethene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Trichlorofluoromethane (Freon 11)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2,3-Trichloropropane	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,2,4-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
1,3,5-Trimethylbenzene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Vinyl chloride	<0.50	2 NYVOA	0.50	ug/L			12/21/18 1458	RSD
m,p-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
o-Xylene	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Xylenes (total)	<0.50	5 NYVOA	0.50	ug/L			12/21/18 1458	RSD
Surrogate: 4-Bromofluorobenzene	93.7	Limit: 70-130		% Rec			12/21/18 1458	RSD
Surrogate: 1,2-Dichlorobenzene-d4	90.0	Limit: 70-130		% Rec			12/21/18 1458	RSD

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

MCL: US EPA Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit

Project Requested Certification(s)

Microbac Laboratories, Inc. - Dayville
11549

New York State Department of Health

Microbac Laboratories, Inc., New York Division
NY Lab ID No.: 10795

New York State Department of Health

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 12/27/2018 21:14

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Microbac Laboratories, Inc., New York Division
Chain of Custody
J8L1045

TAT 7 days

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 12/11/2018
Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8L1045-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 10:31

Analysis

524.2 VOC NY

Method

EPA 524.2, Rv 4.1

Field Results/CommentsContainer(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

Hold Time

14.00 days

Designator

A

B

Client Sample ID: 1-2A Finished

Lab Sample ID: J8L1045-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 10:33

Analysis

524.2 VOC NY

Method

EPA 524.2, Rv 4.1

Field Results/CommentsContainer(s)

V-40ml Clear Vial, Ascorbic Acid, HCL

V-40ml Clear Vial, Ascorbic Acid, HCL

Hold Time

14.00 days

Designator

A

B

Client Sample ID: 1-3 Raw

Lab Sample ID: J8L1045-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 10:44

Analysis

524.2 VOC NY

Method

EPA 524.2, Rv 4.1

Field Results/CommentsContainer(s)

V-40ml Clear vial, HCL

V-40ml Clear vial, HCL

Hold Time

14.00 days

Designator

A

B

Client Sample ID: 1-3 Finished

Lab Sample ID: J8L1045-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 10:46



Microbac Laboratories, Inc., New York Division

Chain of Custody

J8L1045

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 12/11/2018
Field Route ID: NY-Route 1 Bing

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Raw

Lab Sample ID: J8L1045-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 1058

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: 4-2 Finished

Lab Sample ID: J8L1045-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 12/17/18 1100

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 days <u>Designator</u> A B

Client Sample ID: Trip Blank

Lab Sample ID: J8L1045-07

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 12/17/18 1200

<u>Analysis</u>	<u>Method</u>	<u>Field Results/Comments</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	<u>Container(s)</u> V-40ml Clear vial, HCL	14.00 days <u>Designator</u> A

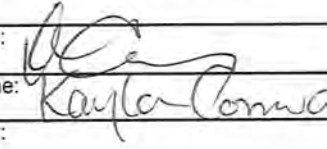


Microbac Laboratories, Inc., New York Division
Chain of Custody
J8L1045

Town of Vestal
Project Name: Town of Vestal Monthly/Quarterly

Scott Groats
 701 Vestal Parkway West
 Vestal, NY 13850-1363
 Phone: (607) 748-1514

Project / PO Number: N/A
 Tentatively Scheduled: 12/11/2018
 Field Route ID: NY-Route 1 Bing

Sampled/Relinquished by: 	Date/Time: 12/12/18 1521	Received by: 
Printed Name: Bethany Robinson		Printed Name: Kayla Conway
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: ☒ Yes / No Temp 6.3 °C Total Containers: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:

Arcadis CE, Inc.

855 Route 146

Suite 210

Clifton Park, New York 12065

Tel 518 250 7300

Fax 518 250 7301

www.arcadis.com

A decorative graphic consisting of three thin orange lines. One line is horizontal, extending from the left edge of the page towards the right. Two other lines are diagonal, starting from the bottom left and extending towards the top right, intersecting the horizontal line.