



**Department of
Environmental
Conservation**

Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT – FIRST QUARTER 2017

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

September 2017



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Vestal Water Supply Site
Site No. 7-04-009A

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CONTENTS

1	Introduction	1-1
2	Investigation Activities.....	2-2
2.1	Groundwater Sampling	2-2
2.1.1	Water Level Data.....	2-2
2.1.1.1	April 2017 Potentiometric Maps (April 10, 2017).....	2-3
2.1.2	April 2017 Groundwater Sampling	2-3
2.1.2.1	April 2017 Groundwater Sampling Results	2-3
2.1.3	Town of Vestal Municipal Well Sampling	2-5
3	Recommendations	3-1
4	Activities for Next Quarter	4-1

TABLES

Table 2-1	Summary of the Groundwater Monitoring Locations
Table 2-2	Summary of Groundwater Elevation Data
Table 2-3	Summary of Groundwater Results
Table 2-4	Summary of Town of Vestal Municipal Well Sampling Results

FIGURES

Figure 1-1	Site Location
Figure 2-1	Monitoring Well Location Map
Figure 2-2	Shallow Potentiometric Surface with Well 1-1A Inactive (April 10, 2017)
Figure 2-3	Intermediate Potentiometric Surface with Well 1-1A Inactive (April 10, 2017)
Figure 2-4	Deep Potentiometric Surface with Well 1-1A Inactive (April 10, 2017)
Figure 2-5	Total VOC Concentrations (Shallow Wells April 10, 2017)
Figure 2-6	Total VOC Concentrations (Intermediate Wells April 10, 2017)
Figure 2-7	Total VOC Concentrations (Deep Wells April 10, 2017)
Figure 2-8	Total VOC Concentrations (All Wells April 10, 2017)
Figure 2-9	Benzene Concentrations (Shallow Wells April 10, 2017)
Figure 2-10	Benzene Concentrations (Intermediate Wells April 10, 2017)

Remedial System Optimization Report – First Quarter 2017

Figure 2-11 Benzene Concentrations (Deep Wells April 10, 2017)

Figure 2-12 Benzene Concentrations (All Wells April 10, 2017)

APPENDIX

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

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 January 2017 through March 2017 field activities. Due to weather and site conditions (snow and flooding) at the time of the scheduled sampling in mid-March 2017, a portion of the 1st Quarter groundwater monitoring was conducted in early April 2017.

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 Draft Focused Feasibility Study (FFS), which was submitted to the NYSDEC on June 24, 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 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 and 1-3 and Well 1-1 (Figure 2-2). As recommended in the 4th quarter 2016 RSO report, 1st quarter 2017 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 two sampling events.

Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan, and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. Due to compromised PDB bags, samples were not collected from wells 4009-14, 4009-16, and Well 1-1 during the 1st quarter sampling event. These wells remain on the sampling list and will be sampled for during the next quarterly event in June 2017. 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

Groundwater levels were measured on April 10, 2017 using an oil-water interface probe. 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. As shown in Table 2-2, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S (0.74 ft.) during the April 10, 2017 gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), LNAPL

has previously been identified in ERT-1S. The groundwater elevation in monitoring well ERT-1S, as well as the surrounding ERT monitoring wells, will continue to be monitored during the next quarter.

The April 10, 2017 potentiometric maps (Figures 2-2, 2-3, and 2-4) provide groundwater flow information for the shallow, intermediate, and deep groundwater monitoring zones during the Well 1-1A treatment plant shutdown period.

2.1.1.1 April 2017 Potentiometric Maps (April 10, 2017)

As shown on Figures 2-2 and 2-3, the direction of groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest. Figure 2-4 shows that the direction of groundwater flow in the deep groundwater monitoring zone between the Well 1-1A treatment facility and the Town of Vestal, Wells 1-2A and 1-3 is generally north to northeast, toward the Susquehanna River. The groundwater flow direction in the shallow, intermediate, and deep monitoring zones are generally consistent with the previous groundwater flow assessments for the respective monitoring zones.

2.1.2 April 2017 Groundwater Sampling

On April 10, 2017 groundwater samples were collected using PDBs that were deployed on March 23, 2017 in the wells identified on Table 2-1; with the exception of wells 4009-13, 4009-13A, and the wells specified above with compromised PDBs. Groundwater samples from wells 4009-13 and 4009-13A were collected on April 26 2017 using PDBs that were deployed on April 10 2017. Former treatment system Well 1-1 was also included in accordance with the fourth quarter 2014 RSO Report recommendations and subsequent NYSDEC approval in March 2015. Extraction Well 1-1A was sampled during the baseline event, but since the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 April 2017 Groundwater Sampling Results

Groundwater results from the April 2017 groundwater sampling event are provided in Table 2-3. The VOCs measured at the highest concentrations were benzene, chloroethane, 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). Total VOC concentrations measured at the shallow, intermediate, and deep groundwater monitoring zones, during the April groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

As shown in Figure 2-5 and Table 2-3, with the exception of acetone, which is a common laboratory contaminant, VOCs were detected in the following three wells that are screened in the shallow groundwater zone; 4009-7, 4009-9, and 4009-16A. Benzene was the only VOC detected in monitoring well 4009-16A and slightly exceeded the NYSDEC Class GA groundwater standard. In the sample collected from monitoring well 4009-9, TCE was detected at a low estimated concentration and cis-1,2 DCE was detected at a concentration exceeding its respective NYSDEC Class GA Groundwater Standard. In the sample collected from monitoring well 4009-7, 1,1- DCE and TCE were detected at low estimated concentrations and 1,1-DCA at a concentration lower than its respective NYSDEC Class GA Groundwater Standard. The remaining VOCs detected in the 4009-7 sample include cis-1,2-DCE and vinyl chloride at concentrations greater than their respective standards. VOCs were not detected in the

shallow groundwater zone monitoring wells 4009-10, 4009-11A, 4009-13A, and 4009-30A during the April 2017 sampling event. The total VOCs measured at each of the shallow monitoring wells is as follows; 4009-7, (66.47 µg/L), 4009-9 (9.2 µg/L), and 4009-16A (1.8 µg/L).

As shown on Figure 2-6 and 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 VOC concentrations in groundwater samples collected during the April sampling event were from well 4009-29I. The VOC concentrations in the intermediate groundwater zone ranged from 0.74 µg/L at monitoring well 4009-27I- to the maximum concentration of total VOCs in groundwater sample collected from 4009-29I (1991 µg/L).

The following six monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards; 4009-11, 4009-12, 4009-21, 4009-22, 4009-28, and 4009-29D (Figure 2-7 and Table 2-3). Due to compromised PDBs, samples could not be analyzed in deep monitoring wells 4009-14, 4009-16 and Well 1-1, which all have shown consistent VOC exceedances in recent past results. Benzene (discussed below) was detected in five of the six monitoring wells listed above at concentrations exceeding the NYSDEC Class GA Groundwater Standard of 1.0 µg/L. Benzene was detected in a total of seven out of twelve deep groundwater monitoring zone wells with concentrations ranging from 0.41 µg/L in 4009-13 to 24 µg/L in 4009-21. The total VOCs measured in the remaining five deep monitoring wells is as follows; 4009-18 (0.83 µg/L), 4009-19 (0.0 µg/L), 4009-27D (0.0 µg/L), 4009-29D (613 µg/L), and 4009-30 (1.3 µg/L).

Figure 2-8 shows the plume under the revised sample list. As shown on Figure 2-8, the highest groundwater concentrations were detected in the 4009-29 well cluster. The area of highest concentrations extends slightly northwest to 4009-12, as well as southeast toward the 4009-27 cluster and the newly sampled wells, 4009-7, 4009-8, and 4009-26. Despite the high total VOC concentrations detected in the newly sampled wells, none of the three contained detections of benzene. Based on the horizontal and vertical distribution of VOCs, it appears that the long-term pumping at extraction Wells 1-1 and replacement Well 1-1A has caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west.

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 in the April 2017 sampling event are generally consistent with the range of results reported during the last two years with the exception of five wells: 4009-11, 4009-12, 4009-29S, 4009-29I and 4009-29D. Monitoring well 4009-11 has continued to decrease in total VOC concentrations, with the exception of benzene. Concentrations of 1,1,1-TCA, 1,1-DCA, 1,1-DCE, cis-1,2-DCE, TCE, and VC in the samples from monitoring wells 4009-12, 4009-29S, and 4009-29I increased since the last sampling event (to near the previous concentrations). The sample from monitoring well 4009-29D also showed increases in the same VOCs listed above, however at concentrations higher than what has been reported in the past two years.

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 4009-16A, 4009-18, 4009-19, 4009-21, 4009-30/30A) are generally consistent with the previous sampling events. The concentration of VOCs in monitoring wells 4009-18, 4009-19, and 4009-30A were non-detect, with the exception of an estimated concentration of

1,1,1-TCA (0.83 µg/L) in 4009-18. The only VOC detected in monitoring well 4009-30 was 1,1-DCA (1.3 µg/L). Both detections are less than the NYSDEC Class GA standard for 1,1,1-TCA (5.0 µg/L) and 1,1-DCA (5.0 µg/L). Benzene was the only VOC detected in wells 4009-16A (1.8 µg/L) and 4009-21 (24 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 two years in the samples from monitoring wells 4009-12, 4009-14, 4009-15, 4009-16, 4009-21 and 4009-29. Benzene was not detected at concentrations greater than the NYSDEC Class GA standard in the samples collected from the shallow and intermediate zones during the April 2017 sampling event. Benzene concentrations in the samples collected from deep monitoring wells 4009-11 (15 µg/L), 4009-12 (3.60 µg/L), 4009-21 (24.0 µg/L), 4009-22 (1.10 µg/L), and 4009-28 (2.90 µg/L) exceeded the NYSDEC Class GA Groundwater Standard of 1.0 µg/L for benzene during the April 2017 monitoring event (Figures 2-9 through 2-12). As shown in Table 2-3, these concentrations are similar to previous sampling results, with the exception of the sample from well 4009-28, where benzene had not been detected previously. As noted previously, three monitoring wells 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 in the samples from monitoring wells 4009-7, 4009-8, or 4009-26 during the April 2017 monitoring event. 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 January 13, 2017, February 7, 2017, and March 7, 2017. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 on January 31, 2017, February 27, 2017, and March 23, 2017. 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.

VOCs associated with contamination from the source area were not detected in any of the pre-treatment effluent samples collected from the Town of Vestal water supply wells 1-2A and 1-3 during this reporting period. A summary of the monthly analytical data is provided in Table 2-4. Laboratory analytical reporting forms are provided in Appendix A.

3 RECOMMENDATIONS

Town of Vestal Wells 1-2A and 1-3 should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final remedies for OU1 and OU2 are implemented. In addition, quarterly groundwater monitoring should continue while Well 1-1A treatment plant is shut down. It is recommended that the monitoring program continue to include sampling of the locations listed in the most recently revised sample list.

The three newly added wells, 4009-7, 4009-8, and 4009-26 were first sampled with PDBs during the first quarter 2017 event since they had not been previously sampled under the RSO monitoring. During the next quarter sampling event scheduled to occur in June 2017, all wells will be sampled using traditional low flow monitoring methods to evaluate the accuracy of the PDB sampling and to facilitate the analysis of the samples for 1,4-dioxane and perfluorinated compounds in accordance with a request from the NYSDEC.

4 ACTIVITIES FOR NEXT QUARTER

Scheduled activities for the next quarter are summarized below.

- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Quarterly groundwater sampling (June 2017).

TABLES



Table 2-1 Summary of Groundwater Monitoring Locations
Remedial Site Optimization Report /First Quarter 2017 Vestal
Water Supply Site
Site Number 7-04-009A

WELL I.D.	2017 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

WELL I.D.	Top of Riser (ft AMSL)	2/19/2014			3/17/2014			5/12/2014			8/11/2014			11/24/2014			
		DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	DTW (ftbgs)	DTP (ftbgs)	GW ELEV (famsl)	
4009-1	831.98	7.43	NP	824.55	7.15	NP	824.83	7.26	NP	824.72	7.75	NP	824.23	7.80	NP	824.18	
4009-2	827.78	18.16	NP	809.62	17.96	NP	809.82	17.90	NP	809.88	19.77	NP	808.01	20.22	NP	807.56	
4009-3	823.47	16.92	NP	806.55	14.52	NP	808.95	15.10	NP	808.37	17.94	NP	805.53	17.23	NP	806.24	
4009-4	822.22	11.87	NP	810.35	10.64	NP	811.58	10.80	NP	811.42	13.87	NP	808.35	13.65	NP	808.57	
4009-5	824.36	18.47	NP	805.89	16.23	NP	808.13	17.70	NP	806.66	21.94	NP	802.42	18.85	NP	805.51	
4009-6	827.73	20.88	NP	806.85	19.38	NP	808.35	19.50	NP	808.23	21.80	NP	805.93	21.73	NP	806.00	
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	
4009-12A	823.80	20.21	NP	803.59	16.60	NP	807.20	17.98	NP	805.82	21.35	NP	802.45	20.05	NP	803.75	
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	
4009-17	820.53	26.12	NP	794.41	12.95	NP	807.58	14.52	NP	806.01	17.66	NP	802.87	17.18	NP	803.35	
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	
4009-20	822.90	18.45	NP	804.45	15.60	NP	807.30	17.82	NP	805.08	20.25	NP	802.65	18.69	NP	804.21	
4009-21	825.02	**	18.90	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
4009-23S	824.48		16.65	NP	807.83	15.48	NP	809.00	14.88	NP	809.60	17.74	NP	806.74	18.33	NP	806.15
4009-23D	824.39		18.93	NP	805.46	16.37	NP	808.02	17.15	NP	807.24	20.50	NP	803.89	19.23	NP	805.16
4009-24	822.32		15.52	NP	806.80	13.38	NP	808.94	13.99	NP	808.33	16.94	NP	805.38	16.15	NP	806.17
4009-25S	823.61		14.77	NP	808.84	13.84	NP	809.77	13.95	NP	809.66	15.87	NP	807.74	16.00	NP	807.61
4009-25D	823.57		14.98	NP	808.59	13.70	NP	809.87	13.78	NP	809.79	15.85	NP	807.72	16.00	NP	807.57
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	NM
4009-30A	826.69	**	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
WELL 1-1	832.36		29.09	NP	803.27	25.23	NP	807.13	25.50	NP	806.86	30.00	NP	802.36	28.33	NP	804.03
WELL 1-1A	831.13		24.93	NP	806.20	24.13	NP	807.00	26.72	NP	804.41	23.03	NP	808.10	27.10	NP	804.03
ERT-1S	824.01		12.65	11.72	810.57	11.83	10.88	811.37	11.53	10.62	811.71	13.96	12.95	809.19	14.96	14.02	808.25
ERT-1J	824.03		13.45	NP	810.58	12.43	NP	811.60	12.42	NP	811.61	15.17	NP	808.86	15.23	NP	808.80
ERT-1D	823.88		13.50	13.49	810.38	12.50	NP	811.38	12.42	NP	811.46	15.29	NP	808.59	15.18	NP	808.70
ERT-2S	824.67	*	14.19	NP	810.48	13.72	NP	810.95	13.00	NP	811.67	15.66	NP	809.01	15.81	NP	808.86
ERT-2J	824.54	*	14.07	NP	810.47	13.08	NP	811.46	13.06	NP	811.48	15.60	NP	808.94	15.71	15.70	808.83
ERT-2D	824.44	*	12.98	NP	811.46	12.88	NP	811.56	12.56	12.55	811.88	14.97	14.96	809.46	15.28	NP	809.16
ERT-3S	824.38		13.29	NP	811.09	12.94	NP	811.44	11.83	NP	812.55	14.14	NP	810.24	15.09	NP	809.29
ERT-3J	824.23		14.21	NP	810.02	13.23	NP	811.00	13.20	NP	811.03	15.73	NP	808.50	15.85	NP	808.38
ERT-3D	824.20		14.95	NP	809.25	14.62	NP	809.58	13.78	NP	810.42	16.72	16.71	807.47	16.20	NP	808.00
ERT-4S	823.54		13.32	NP	810.22	12.58	NP	810.96	12.85	NP	810.69	Dry	NP	--	Dry	NP	--
ERT-4J	823.49		14.23	NP	809.26	13.37	NP	810.12	13.42	NP	810.07	5.58	NP	817.91	15.70	NP	807.79
ERT-4D	823.63		14.55	NP	809.08	13.56	NP	810.07	13.63	NP	810.00	15.70	NP	807.93	15.90	NP	807.73
ERT-5	824.64	*	NM	NM	NM	12.34	NP	812.30	12.40	NP	812.24	15.28	NP	809.36	14.93	NP	809.71
ERT-6	824.74	*	14.25	NP	810.49	13.05	NP	811.69	13.15	13.14	811.59	16.03	NP	808.71	15.64	NP	809.10
ERT-7	823.96		15.38	NP	808.58	14.25	NP	809.71	14.55	NP	809.41	17.61	NP	806.35	16.80	NP	807.16
ERT-8	824.69		16.70	NP	807.99	15.13	NP	809.56	15.50	NP	809.19	18.57	NP	806.12	17.66	NP	807.03

Notes:
ftbgs - 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
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

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)	
4009-1	831.98	7.64	NP	824.34	6.89	NP	825.09	8.03	NP	823.95	7.41	NP	824.57	6.50	NP	825.48	
4009-2	827.78	19.22	NP	808.56	18.11	NP	809.67	20.64	NP	807.14	18.93	NP	808.85	19.48	NP	808.30	
4009-3	823.47	15.90	NP	807.57	14.87	NP	808.60	18.64	NP	804.83	16.3	NP	807.17	17.33	NP	806.14	
4009-4	822.22	12.22	NP	810.00	10.80	NP	811.42	14.43	NP	807.79	12.03	NP	810.19	12.84	NP	809.38	
4009-5	824.36	17.80	NP	806.56	16.77	NP	807.59	20.69	NP	803.67	18.65	NP	805.71	19.85	NP	804.51	
4009-6	827.73	20.48	NP	807.25	19.23	NP	808.50	22.41	NP	805.32	20.57	NP	807.16	21.47	NP	806.26	
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	
4009-12A	823.80	17.91	NP	805.89	17.79	NP	806.01	22.03	NP	801.77	19.35	NP	804.45	20.70	NP	803.10	
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	
4009-17	820.53	14.55	NP	805.98	14.25	NP	806.28	18.50	NP	802.03	15.86	NP	804.67	16.98	NP	803.55	
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	
4009-20	822.90	17.04	NP	805.86	17.29	NP	805.61	21.29	NP	801.61	18.56	NP	804.34	19.55	NP	803.35	
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	
4009-23S	824.48	17.02	NP	807.46	14.17	NP	810.31	19.10	NP	805.38	16.71	NP	807.77	17.56	NP	806.92	
4009-23D	824.39	17.93	NP	806.46	16.90	NP	807.49	19.13	NP	805.26	18.64	NP	805.75	19.95	NP	804.44	
4009-24	822.32	16.19	NP	806.13	13.82	NP	808.50	NM	NM	NM	15.20	NP	807.12	16.35	NP	805.97	
4009-25S	823.61	14.81	NP	808.80	13.73	NP	809.88	16.72	NP	806.89	14.68	NP	808.93	15.35	NP	808.26	
4009-25D	823.57	14.75	NP	808.82	13.65	NP	809.92	16.70	NP	806.87	14.64	NP	808.93	15.32	NP	808.25	
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
WELL 1-1	832.36	26.56	NP	805.80	26.46	NP	805.90	NM	NM	NM	NM	NM	NM	NM	NM	NM	
WELL 1-1A	831.13	24.21	NP	806.92	25.37	NP	805.76	29.42	NP	801.71	25.15	NP	805.98	28.35	NP	802.78	
ERT-1S	824.01	13.36	12.48	809.90	9.55	8.60	813.65	13.45	NP	810.56	12.73	12.10	810.74	12.68	12.10	810.84	
ERT-1J	824.03	13.83	NP	810.20	12.46	NP	811.57	15.93	NP	808.10	13.60	NP	810.43	14.35	NP	809.68	
ERT-1D	823.88	13.80	NP	810.08	10.80	10.72	813.01	15.97	NP	807.91	13.69	NP	810.19	14.49	NP	809.39	
ERT-2S	824.67	*	14.50	NP	810.17	13.11	NP	811.56	16.46	NP	808.21	14.25	NP	810.42	14.97	NP	809.70
ERT-2I	824.54	*	14.36	NP	810.18	13.08	NP	811.46	16.35	NP	808.19	14.15	NP	810.39	14.88	NP	809.66
ERT-2D	824.44	*	14.21	NP	810.23	12.80	NP	811.64	16.39	NP	808.05	11.78	NP	812.66	13.54	NP	810.90
ERT-3S	824.38	13.94	NP	810.44	11.21	NP	813.17	15.40	NP	808.98	13.39	NP	810.99	NM	NM	NM	
ERT-3I	824.23	14.53	NP	809.70	13.21	NP	811.02	16.57	NP	807.66	14.33	NP	809.90	NM	NM	NM	
ERT-3D	824.20	15.01	NP	809.19	13.75	NP	810.45	17.22	NP	806.98	15.13	NP	809.07	NM	NM	NM	
ERT-4S	823.54	13.18	NP	810.36	11.81	NP	811.73	Dry	NP	--	NM	NM	NM	Dry	NP	--	
ERT-4I	823.49	14.46	NP	809.03	13.31	13.30	810.17	16.38	NP	807.11	NM	NM	NM	14.99	NP	808.50	
ERT-4D	823.63	14.64	NP	808.99	13.51	13.49	810.10	16.57	NP	807.06	NM	NM	NM	15.19	NP	808.44	
ERT-5	824.64	*	13.68	NP	810.96	12.45	NP	812.19	15.81	NP	808.83	13.70	NP	810.94	14.56	NP	810.08
ERT-6	824.74	*	14.39	NP	810.35	13.13	NP	811.61	16.64	NP	808.10	14.47	NP	810.27	15.35	NP	809.39
ERT-7	823.96	15.68	NP	808.28	14.45	NP	809.51	18.00	NP	805.96	15.98	NP	807.98	17.00	NP	806.96	
ERT-8	824.69	16.56	NP	808.13	15.43	NP	809.26	18.96	NP	805.73	16.95	NP	807.74	17.95	NP	806.74	

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

WELL I.D.	Top of Riser (ft AMSL)	9/15/2016			11/3/2016			4/10/2017			
		DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	DTW (fbgs)	DTP (fbgs)	GW ELEV (famsl)	
4009-1	831.98	8.56	NP	823.42	7.30	NP	824.68	7.22	NP	824.76	
4009-2	827.78	20.81	NP	806.97	20.05	NP	807.73	11.14	NP	816.64	
4009-3	823.47	19.43	NP	804.04	17.42	NP	806.05	7.68	NP	815.79	
4009-4	822.22	15.29	NP	806.93	13.85	NP	808.37	5.27	NP	816.95	
4009-5	824.36	21.92	NP	802.44	19.40	NP	804.96	NM	NP	NM	
4009-6	827.73	22.71	NP	805.02	21.46	NP	806.27	11.58	NP	816.15	
4009-7	824.27	21.92	NP	802.35	19.39	NP	804.88	5.33	NP	818.94	
4009-8	824.52	22.74	NP	801.78	19.84	NP	804.68	8.94	NP	815.58	
4009-9	825.05	23.19	NP	801.86	21.28	NP	803.77	8.85	NP	816.20	
4009-10	831.31	29.13	NP	802.18	27.52	NP	803.79	15.13	NP	816.18	
4009-11	830.06	21.10	NP	808.96	26.83	NP	803.23	17.43	NP	812.63	
4009-11A	830.80	20.63	NP	810.17	20.40	NP	810.40	11.4	NP	819.40	
4009-12	823.34	22.51	NP	800.83	19.45	NP	803.89	9.25	NP	814.09	
4009-12A	823.80	22.95	NP	800.85	19.92	NP	803.88	9.71	NP	814.09	
4009-13	816.28	15.23	NP	801.05	11.80	NP	804.48	2.23	NP	814.05	
4009-13A	816.17	14.73	NP	801.44	12.25	NP	803.92	1.24	NP	814.93	
4009-14	820.71	9.71	NP	811.00	16.68	NP	804.03	6.85	NP	813.86	
4009-15	826.54	25.79	NP	800.75	22.68	NP	803.86	12.59	NP	813.95	
4009-16	826.72	26.08	NP	800.64	22.80	NP	803.92	13.08	NP	813.64	
4009-16A	826.84	26.49	NP	800.35	22.70	NP	804.14	12.85	NP	813.99	
4009-17	820.53	19.59	NP	800.94	16.24	NP	804.29	5.57	NP	814.96	
4009-18	834.78	34.24	NP	800.54	30.77	NP	804.01	20.99	NP	813.79	
4009-19	824.84	24.76	NP	800.18	21.00	NP	803.94	11.2	NP	813.74	
4009-20	822.90	22.68	NP	800.22	18.84	NP	804.06	9.23	NP	813.67	
4009-21	825.02	**	24.96	NP	800.06	21.17	NP	803.85	11.55	NP	813.47
4009-22	817.40	13.85	NP	803.55	13.09	NP	804.31	2.21	NP	815.19	
4009-23S	824.48	20.12	NP	804.36	18.83	NP	805.65	9.04	NP	815.44	
4009-23D	824.39	22.10	NP	802.29	19.54	NP	804.85	8.95	NP	815.44	
4009-24	822.32	18.51	NP	803.81	16.39	NP	805.93	NM	NP	NM	
4009-25S	823.61	17.18	NP	806.43	16.08	NP	807.53	7.3	NP	816.31	
4009-25D	823.57	17.16	NP	806.41	16.04	NP	807.53	6.16	NP	817.41	
4009-26	824.31	22.39	NP	801.92	19.62	NP	804.69	5.72	NP	818.59	
4009-27S	826.19	24.96	NP	801.23	21.97	NP	804.22	11.31	NP	814.88	
4009-27I	826.03	24.83	NP	801.20	21.87	NP	804.16	11.58	NP	814.45	
4009-27D	825.87	24.65	NP	801.22	21.70	NP	804.17	11.54	NP	814.33	
4009-28	821.59	20.79	NP	800.80	17.78	NP	803.81	7.35	NP	814.24	
4009-29S	825.77	24.71	NP	801.06	21.72	NP	804.05	11.39	NP	814.38	
4009-29I	825.68	24.79	NP	800.89	21.80	NP	803.88	11.44	NP	814.24	
4009-29D	825.67	24.79	NP	800.88	21.75	NP	803.92	12.29	NP	813.38	
4009-30	827.50	**	26.6	NP	800.90	23.32	NP	804.18	12.29	NP	815.21
4009-30A	826.69	**	26.32	NP	800.37	22.73	NP	803.96	12.83	NP	813.86
WELL 1-1	832.36	NM	NM	NM	NM	NM	NM	12.56	NP	819.80	
WELL 1-1A	831.13	30.39	NP	800.74	27.50	NP	803.63	NM	NP	NM	
ERT-1S	824.01	15.29	13.86	807.50	NM	NM	NM	6.49	5.7	817.52	
ERT-1J	824.03	16.72	NP	807.31	NM	NM	NM	7.04	NP	816.99	
ERT-1D	823.88	16.91	NP	806.97	NM	NM	NM	6.59	NP	817.29	
ERT-2S	824.67	*	17.11	NP	807.56	NM	NM	7.48	NP	817.19	
ERT-2I	824.54	*	17.03	NP	807.51	NM	NM	7.34	NP	817.20	
ERT-2D	824.44	*	14.74	NP	809.70	NM	NM	7.44	NP	817.00	
ERT-3S	824.38	Dry	NP	--	NM	NM	NM	8.05	NP	816.33	
ERT-3I	824.23	17.17	NP	807.06	NM	NM	NM	7.47	NP	816.76	
ERT-3D	824.20	18.16	NP	806.04	NM	NM	NM	7.64	NP	816.56	
ERT-4S	823.54	Dry	NP	--	NM	NM	NM	6.21	NP	817.33	
ERT-4I	823.49	16.89	NP	806.60	NM	NM	NM	NM	NP	NM	
ERT-4D	823.63	17.07	NP	806.56	NM	NM	NM	NM	NP	NM	
ERT-5	824.64	*	16.69	NP	807.95	NM	NM	7.02	NP	817.62	
ERT-6	824.74	*	17.47	NP	807.27	NM	NM	NM	NP	NM	
ERT-7	823.96	18.98	NP	804.98	NM	NM	NM	7.72	NP	816.24	
ERT-8	824.69	19.96	NP	804.73	NM	NM	NM	8.59	NP	816.10	

Notes:
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* - 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
■ Corrected based on assumed LNAPL density of 0.85 g/cm3

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	4009-1 2/20/2014 Shallow	4009-1 5/28/2014 Shallow	4009-1 8/28/2014 Shallow	4009-1 12/9/2014 Shallow	4009-2 2/20/2014 Shallow	4009-2 5/28/2014 Shallow	4009-2 8/28/2014 Shallow	4009-2 12/9/2014 Shallow	4009-3 2/20/2014 Shallow	4009-3 5/28/2014 Shallow	4009-3 8/28/2014 Shallow	4009-3 12/9/2014 Shallow	4009-4 2/20/2014 Intermediate	4009-4 5/28/2014 Intermediate	4009-4 8/28/2014 Intermediate	4009-4 12/9/2014 Intermediate	4009-5 2/20/2014 Intermediate	4009-5 5/28/2014 Intermediate	4009-5 8/28/2014 Intermediate
Sampling Date																				
Groundwater Monitoring Zone																				
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	ug/L
1,1,1-Trichloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.6 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2,2-Tetrachloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.3	0.9 J	1.5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1,2-Trichloroethane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,1-Dichloroethane	5	1.0 U	0.5 J	1.0 UJ	0.37 J	2.7	2.3	2.6 J	3.4	6.3	6.6	7.5 J	4.8	1.0 U	0.4 J	1.0 UJ	1.0 U	2.7	3.0 J	1.3 J
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.3	1.1	1.1 J	0.87 J	1.0 U	1.0 U	1.0 UJ	1.0 U	2.2	1.8 J	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trichlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2,4-Trimethylbenzne	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloroethane	0.6	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,2-Dichloropropane	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,3-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
1,4-Dichlorobenzene	3	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
2-Butanone (MEK)	50	1.3 J	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	10 U	10 U	10 UJ	10 U	1.5 J	10 U	10 UJ	10 U	10 U	50 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	25 U	5.0 UJ
Acetone	50*	10	4.2 J	12 J	10 U	7.2 J	3.5 J	9.9 J	10 U	10	4.6 J	12 J	10 U	12	3.4 J	8.0 J	10 U	11	50 U	11 J
Benzene	1	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	3.2	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	3.6 J	1.0 U	1.0 U	5.0 U	1.7 J
Bromodichloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromoform	50*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Bromomethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon disulfide		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Carbon tetrachloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chlorobenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloroform	7	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Chloromethane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	1.6	2.0	2.2 J	2.4	14	12	9.0 J	6.9	77	65	63 J	48	1.0 U	79	1.3 J	0.45 J	250 D	280	170 J
cis-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Dibromochloromethane	50	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Ethylbenzene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10.0 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	13 U	2.5 UJ
Methyl Cyclohexane		1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Methylene Chloride	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	4.6 J	1.0 UJ
Methyl Tert Butyl Ether	10	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Styrene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Tetrachloroethene	5	1.4	0.4 J	1.7 J	0.84 J*	1.0 U	1.0 U	1.0 UJ	0.51 J*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Toluene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
trans-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	0.46 J	1.0 U	1.0 U	1.0 UJ	0.45 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0	5.0 U	1.0 UJ
trans-1,3-Dichloropropene	0.4	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	5.0 U	1.0 UJ
Trichloroethene	5	1.4	1.1	1.7 J	1.5	2.9	2.7	2.3 J	2.5	26	15	12 J	11	1.0 U	1.5	1.0 UJ	1.0 U	21	19	12 J
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	5.0 U	1.0 UJ
Vinyl chloride	2	1.0 U	1.0 U	1.0 UJ	1.0 U	6.9	1.3	5.1 J	6.5	11	13	33 J	16	1.0 U	1.0 U	1.0 UJ	1.0 U	39	41	14 J
Xylenes, Total		2.0 U	2 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	10 U	2.0 UJ
Total VOCs		15.7	8.2	17.6	5.11	34.8	26.3	29.8	21.8	132	105	130	81.1	13.5	84.3	13.5	0.45	327	349	210
Total VOCs (w/o Acteone or Methylene Chloride)																				
		5.7	4.0	5.6	5.11	27.6	22.8	19.9	21.8	122	101	118	81.1	1.50	80.9	5.50	0.45	316	345	199

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA	4009-5 12/9/2014 Intermediate ug/L	4009-6 2/20/2014 Shallow ug/L	4009-6 5/28/2014 Shallow ug/L	4009-6 8/28/2014 Shallow ug/L	4009-6 12/9/2014 Shallow 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	4009-8 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	4009-9 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
Groundwater Monitoring Zone	Standard	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow
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	ug/L
1,1,1-Trichloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	790 D	1000	2900 DJ	1500	560	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2,2-Tetrachloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	14	13 J	20 UDJ	17 J	5.1 J	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1,2-Trichloroethane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	0.5 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethane	5	1.7 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 J	0.48 J	1.0 UJ	3.3 U	1.1	40	62	72 DJ	58	51	1.0 U	1.0 U	1.0 UJ	1.0 U
1,1-Dichloroethene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.29 J	1.0 UJ	3.3 U	0.44 J	31	120	94 DJ	120	31	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,3-Trimethylbenzene		13 U	1.0 U	1.0 U	1.0 UJ	5.0 U	1.0 U	1.0 U	1.0 UJ	17 U	1.0 U	1.0 U	20 U	20 UDJ	130 U	10 U	1.0 U	1.0 U	1.0 UJ	5.0 U
1,2,4-Trichlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2,4-Trimethylbenzne	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	5.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	1.0 U	1.0 UJ	6.7 U	1.0 U	1.0 U	20 U	20 UDJ	50 U	10 U	1.0 U	1.0 U	1.0 UJ	2.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloroethane	0.6	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,2-Dichloropropane	1	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,3-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
1,4-Dichlorobenzene	3	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
2-Butanone (MEK)	50	25 U	10 U	10 U	10 UJ	10 U	10 U	1.4 J	10 UJ	33 U	10 U*	10 U	200 U	200 UDJ	250 U	100 U*	1.4 J	10 U	10 UJ	10 U
2-Hexanone	50*	25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	5.0 U	5.0 U	5.0 UJ	10 U
4-Methyl-2-pentanone (MIBK)		25 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U	5.0 UJ	33 U	5.0 U	5.0 U	100 U	100 UDJ	250 U	50 U	5.0 U	5.0 U	5.0 UJ	10 U
Acetone	50*	25 U	8.5 J	10 U	9.8 J	10 U	5.3 J	7.1 J	14 J	33 U	3.4 J	9.6 J	200 U	200 UDJ	250 U	100 U	12	3.3 J	11 J	10 U
Benzene	1	0.62 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.1	1.0 U	0.41 J	3.3 U	1.0 U	0.67 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.3 J	1.3
Bromodichloromethane	50	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromoform	50*	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U*	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Bromomethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon disulfide		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Carbon tetrachloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chlorobenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	0.3 J	1.0 UJ	3.3 U	1.0 U	2.2	20 U	20 UDJ	25 U	7.8 J	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloroform	7	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	0.6 J	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Chloromethane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
cis-1,2-Dichloroethene	5	170	1.0 U	1.0 U	1.0 UJ	0.24 J	20	46	36 J	38	42	440 D	310	550 DJ	490	230	6.3	4.0	13 J	7.0
cis-1,3-Dichloropropene	0.4	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Dibromochloromethane	50	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Dichlorodifluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Ethylbenzene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Isopropylbenzne (Cumene)	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	2.5 U	2.5 UJ	33 U	2.5 U	2.5 U	50 U	50 UDJ	250 U	25 U	2.5 U	2.5 U	2.5 UJ	10 U
Methyl Cyclohexane		2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methylene Chloride	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	9.1 DJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Methyl Tert Butyl Ether	10	2.5 U	0.3 J	0.27 J	1.0 UJ	0.23 J	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Styrene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Tetrachloroethene	5	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.3	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Toluene	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,2-Dichloroethene	5	0.69 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1.1	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
trans-1,3-Dichloropropene	0.4	2.5 U*	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U	1.0 UJ	3.3 U*	1.0 U	1.0 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U*
Trichloroethene	5	14	0.5 J	0.61 J	1.0 UJ	0.37 J	2.1	4.1	3.3 J	2.7 J	0.93 J	19	20 U	20 UDJ	7.1 J	150	0.5 J	0.66 J	0.67 J	0.80 J
Trichlorofluoromethane	5	2.5 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 UJ	3.3 U	1.0 U	1 U	20 U	20 UDJ	25 U	10 U	1.0 U	1.0 U	1.0 UJ	1.0 U
Vinyl chloride	2	31	1.0 U	1.0 U	1.0 UJ	1.0 U	2.5	3.1	3.1 J	3.0 J	22	44	140	92 DJ	44	30	1.0 U	1.0 U	1.0 UJ	1.0 U
Xylenes, Total		5.0 U	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U	2.0 UJ	6.7 U	2.0 U	2.0 U	40 U	40 UDJ	50 U	20 U	1.0 U	2.0 U	2.0 UJ	2.0 U
Total VOCs		218	9.29	0.88	9.80	0.84	32.0	62.8	56.8	43.7	69.9	1394	1645	3717	2236	1065	20.2	7.96	26.0	9.10
Total VOCs (w/o Acteone or Methylene Chloride)		218	0.79	0.88	0.0	0.84	26.7	55.7	42.8	43.7	66.47	1384	1645	3717	2236	1065	8.24	4.66	15.0	9.10

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA Standard	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	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
Groundwater Monitoring Zone																				
Units																				
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 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 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 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 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	0.38 J	1.0 U	0.39 J	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 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 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 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 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 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 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 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 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 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 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 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 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	10.0 U	10.0 U	10.0 U	10 U	10 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 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 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*	7.1 J	10.0 U	10.0 U	3.5 J	10 U	10 U	10 U	3.5 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	3.4	2.5	1.0 U	1.0 U	3.7	1.3	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 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 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 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 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 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 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 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 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 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	1.9	15	21	4.0	21	22	19	8.2	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
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	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	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	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	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	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	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	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 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 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 Butyl 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	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	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	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	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 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 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	0.52 J	0.59 J	0.52 J	0.74 J	0.65 J	0.57 J	0.81 J	0.97 J	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 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	2.0 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	2.0 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 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		9.52	18.99	24.4	8.24	22.04	26.3	21.1	12.7	12.6	3.73	9.80	26.3	9.20	1.80	0.97	0.0	1.9	0.65	3.4
Total VOCs (w/o Acteone or Methylene Chloride)		2.42	18.99	24.4	4.74	22.04	26.3	21.1	9.17	2.6	0.53	2.3	26.3	0.0	1.80	0.97	0.0	1.9	0.65	3.4

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-10 4/10/2017 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	4009-11 11/28/2016 Deep ug/L	4009-11 4/10/2017 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
1,1,1-Trichloroethane	5	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	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	1.0 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	1.0 UJ	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.74 J	1.2	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-Trichloroethane	1	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	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	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	2.1	2.8	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	1.0 UJ	1.0 U	1.0 U	1.0 U	8.7	1.0 U	3.4	5.4	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 UJ	10 U	10 U	10 U	10 U	10 U	10 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 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	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 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	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	5.0 U
Acetone	50*	3.4 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	10 U	3.7 J	9.8 J	4.1 J	10 J	10 U	7.6 J	10 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 UJ	7.8	5.6	8.4	1.0 U	18	1.0 U	1.3	16	15	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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	1.0 UJ	1.0 U	1.0 U	1.0 U	1.5	1.5	1.2	1.8	1.0 U	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 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	1.0 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 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	1.0 U	1.0 U	1.0 UJ	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 UJ	1.0 U	1.0 U	1.0 U	12	1.0 U	8.8	15	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-1,3-Dichloropropene	0.4	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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	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 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	1.0 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 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	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	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	1.0 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 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	1.0 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 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	1.0 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 UJ	1.0	1.0	1.0	1.0 U	0.79 J	1.0 U	1.0 U	0.82 J	0.85 J	1.0 U	1.0 U	1.0 UJ	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 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	1.0 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 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	1.0 U	1.0 U	1.0 UJ	1.0 U*	1.0 U	1.0 U
Trichloroethene	5	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	1.0 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 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	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	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	2.0 U	1.1	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 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	2.0 U	2.0 U	2.0 UJ	2.0 U	2.0 U	2.0 U
Total VOCs		3.4	7.80	4.60	1.90	8.80	13.3	9.40	140	25.45	98.14	150	18.9	23.5	9.80	4.10	10.0	0.0	7.60	0.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.0	0.0	1.90	8.80	6.60	9.40	140	21.05	98.14	150	18.92	19.75	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
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-11A 9/29/2016 Shallow ug/L	4009-11A 11/28/2016 Shallow ug/L	4009-11A 4/10/2017 Shallow ug/L	4009-12 2/20/2014 Deep ug/L	4009-12 5/28/2014 Deep ug/L	4009-12 8/28/2014 Deep ug/L	4009-12 12/9/2014 Deep ug/L	4009-12 4/20/2015 Deep ug/L	4009-12 7/29/2015 Deep ug/L	4009-12 11/4/2015 Deep ug/L	4009-12 3/28/2016 Deep 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	DUP-02 4/10/2017 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	32	43	1.0 U	290	1.0 U	180	67	1.0 U	1.0 U	1.0 U	1.0 U	100	110
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	22 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	2.0 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	22 U	1.0 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.9 J	1.6 J
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	22 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	2.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	4.0	6.5	1.0 U	29	1.8	25	29	3.1	2.9	2.4	2.9	18	17
1,1-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	3.4	6.1	1.0 U	30	1.0 U	20	8.5	1.0 U	1.0 U	1.0 U	1.0 U	3.2	2.6
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	110 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	2.0 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	22 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	2.0 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	22 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	2.0 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	44 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	10 U	10 U	220 U	10 U	50 U	10 U	10 U	10 U	10 U	10 U	10 U*	20 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	220 U	5.0 U	25 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	220 U	5.0 U	25 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	4.6 J	3.5 J	10 U	10 U	4.1 J	5.8 J	3.8 J	7.0 J	220 U	7.1 J	50 U	10 U	10 U	10 U	10 U	10 U	5.5 J	20 U
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.5	1.6	22 U	2.7	2.9 J	2.4	6.7	7.5	8.7	9.1	3.6	3.3
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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 U	1.0 U	5.0 U	0.83 J	1.0 U	1.0 U	1.0 U	1.0 U	1.1	2.0 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	22 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	2.0 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	22 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	2.0 U
cis-1,2-Dichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	13	9.5	8.5	63	4.1	41	18	1.5	1.1	1.0	0.95 J	11	11
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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 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	220 U	2.5 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 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	22 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	2.0 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	22 U	1.0 U	5.0 U	1.0 U	0.50 JB	1.0 U	1.0 U	1.0 U	1.0 U	2.0 U
Methyl Tert Butyl 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	22 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	2.0 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	22 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	2.0 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	22 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	2.0 U
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	0.8 J	0.74 J	22 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	2.0 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	22 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	2.0 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	22 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	2.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	17	18	1.0 U	64	1.0 U	39	11	0.77 J	0.81 J	0.55 J	0.60 J	3.0	3.3
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	22 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	2.0 U
Vinyl chloride	2	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	6.1	3.7	0.9 J	30	2.3	51	41	1.7	1.4	1.1	1.6	5.7	5.7
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	44 U	2.0 U	10 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U	4.0 U
Total VOCs		0.0	4.60	3.50	0.0	0.0	4.1	81.3	93.9	18.7	506	18.0	359	178	14.3	13.7	13.8	15.2	146	144
Total VOCs (w/o Acteone or Methylene Chloride)		0.0	0.0	0.0	0.0	0.0	0.0	75.5	90.1	11.7	506	10.9	359	178	13.8	13.7	13.8	15.2	146	144

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC GA	4009-12A 2/20/2014	4009-12A 5/28/2014	4009-12A 8/28/2014	4009-12A 12/9/2014	4009-13 2/20/2014	4009-13 5/28/2014	4009-13 8/28/2014	4009-13 12/9/2014	4009-13 4/20/2015	4009-13 7/29/2015	4009-13 11/4/2015	4009-13 3/28/2016	4009-13 6/30/2016	4009-13 9/29/2016	4009-13 11/28/2016	4009-13 4/26/2017	4009-13A 2/20/2014	4009-13A 5/28/2014	4009-13A 8/28/2014
Sampling Date	Standard	Intermediate	Intermediate	Intermediate	Intermediate	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Shallow	Shallow	Shallow
Groundwater Monitoring Zone	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	ug/L
Units																				
1,1,1-Trichloroethane	5	34	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	1.0 U	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethane	5	4.3	7.8	4.3	2.8	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	1.0 U	1.0 U	1.0 UJ
1,1-Dichloroethene	5	3.8	1.3	0.6 J	0.53 J	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	1.0 U	1.0 U	1.0 UJ
1,2,3-Trimethylbenzene		1.0 U	1.0 U	1.0 U	5.0 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	1.0 U	1.0 U	2.0 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
1,2-Dichlorobenzene	3	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	1.0 U	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
1,2-Dichloropropane	1	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	1.0 U	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
1,3-Dichlorobenzene	3	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	1.0 U	1.0 U	1.0 U	1.0 UJ
1,4-Dichlorobenzene	3	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	1.0 U	1.0 U	1.0 U	1.0 UJ
2-Butanone (MEK)	50	10 U	10 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	10 U	10 U	10 U	10 UJ
2-Hexanone	50*	5.0 U	5.0 U	5.0 U	10 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	5.0 U	5.0 U	5.0 UJ
4-Methyl-2-pentanone (MIBK)		5.0 U	5.0 U	5.0 U	10 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	5.0 U	5.0 U	5.0 UJ
Acetone	50*	9.9 J	3.9 J	10 U	10 U	8.4 J	3.8 J	10 UJ	10 U	8.9 J	10 U	10 U	10 U	3.5 J	10 U	10 U	10 U	8.4 J	10 U	11 J
Benzene	1	1.0 U	1.0 U	0.57 J	0.31 J	1.0 U	0.42 J	4.8 J	1.0	0.96 J	1.7	3.2	3.2	2.4	1.9	1.9	0.41 J	1.0 U	0.58 J	1.0 UJ
Bromodichloromethane	50	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Bromoform	50*	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	1.0 U*	1.0 U	1.0 U	1.0 UJ
Bromomethane	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon disulfide		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	1.0 U	1.0 U	1.0 U	1.0 UJ
Carbon tetrachloride	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Chlorobenzene	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloroethane	5	1.0 U	7.5	7.0	4.1	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	1.0 U	1.0 U	1.0 UJ
Chloroform	7	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Chloromethane		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	1.0 U	1.0 U	1.0 U	1.0 UJ
cis-1,2-Dichloroethene	5	15	18	15	14	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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
Cyclohexane		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	1.0 U	1.0 U	1.0 U	1.0 UJ
Dibromochloromethane	50	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Dichlorodifluoromethane	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Ethylbenzene	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Isopropylbenzne (Cumene)	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Acetate		2.5 U	2.5 U	2.5 U	10 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	2.5 U	2.5 U	2.5 UJ
Methyl Cyclohexane		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	1.0 U	1.0 U	1.0 U	1.0 UJ
Methylene Chloride	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Methyl Tert Butyl Ether	10	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Styrene	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Tetrachloroethene	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Toluene	5	1.0 U	0.55 J	0.53 J	1.0 U	1.0 U	3.7	2.7 J	0.55 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 UJ
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 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	1.0 U	1.0 U	1.0 UJ
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 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	1.0 U	1.0 U	1.0 UJ
Trichloroethene	5	19	2.2	1.0	0.30 J	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	1.0 U	1.0 U	1.0 UJ
Trichlorofluoromethane	5	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	1.0 U	1.0 U	1.0 U	1.0 UJ
Vinyl chloride	2	6.4	1.0 U	1.7	6.5	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	1.0 U	1.0 U	1.0 UJ
Xylenes, Total		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	2.0 U	2.0 U	2.0 U	2.0 UJ
Total VOCs		92.4	41.3	30.7	28.5	8.40	7.92	7.50	1.55	9.90	1.70	3.20	3.20	5.90	1.90	1.90	0.41	8.40	0.58	11.0
Total VOCs (w/o Acteone or Methylene Chloride)		82.5	37.4	30.7	28.5	0.0	4.12	7.50	1.55	1.00	1.70	3.20	3.20	2.40	1.90	1.90	0.41	0.0	0.58	0.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID	NYSDEC	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-13A	4009-14	4009-14	4009-14	4009-14	4009-14	4009-14	4009-14	4009-14	4009-14	4009-14
Sampling Date	GA	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016	4/26/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	9/29/2016	11/28/2016
Groundwater Monitoring Zone	Standard	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
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	ug/L	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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	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	1.0 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	1.0 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	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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	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	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	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	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)		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	10 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	10 U	6.8 J	10 U	10 U	10 U	10 U	10 U	10 U	3.0 J	6.3 J	4.3 J	11	10 U	7.1 J	10 U	3.1 J	10 U	4.1 J	10 U	10 U
Benzene	1	0.96 J	1.0 U	1.0 U	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	0.54 J	1.2	4.0	12	18	14	15	17
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.0 U	1.0 U
Methyl Acetate		1.0 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	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
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	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	1.0 U	1.0 U
Methyl Tert Butyl 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	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	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	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	0.91 J	1.0	0.92 J	1.0	1.2	1.2	0.78 J	1.0 U	0.55 J	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	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	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	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	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	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	2.0 U	2.0 U
Total VOCs		0.96	6.80	0.0	0.44	1.20	0.0	0.0	0.0	3.0	6.30	5.21	12.0	1.46	9.30	5.20	16.3	18.78	18.1	15.6	17.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.96	0.0	0.0	0.44	1.20	0.0	0.0	0.0	0.0	0.0	0.91	1.00	1.46	2.20	5.20	13.2	18.78	14.0	15.6	17.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Notes

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¹- This is a duplicate sample from 4009-12

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******- Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-16A 2/20/2014 Shallow ug/L	4009-16A 5/28/2014 Shallow 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	4009-18 5/6/2015 Deep ug/L	4009-18 7/29/2015 Deep ug/L	4009-18 11/4/2015 Deep ug/L
1,1,1-Trichloroethane	5	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	0.86 J	1.0	1.0 U
1,1,2,2-Tetrachloroethane	5	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 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	NS	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	1.0 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	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	1.0 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	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	1.0 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	NS	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 U
1,2-Dibromoethane (Ethylene Dibromide)	5	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 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	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	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	10 U	10 U	10 U	10 U	NS	1.6 J	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U*	3.3 J	10 U
2-Hexanone	50*	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	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
4-Methyl-2-pentanone (MIBK)		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	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
Acetone	50*	10 U	4.5 J	10 U	10 U	10 U	NS	12	4.0 J	7.6 J	10 U	6.4 J	10 U	10 U	10 U	10 U	10 U	5.0 J	10	10 U	10 U
Benzene	1	1.0 U	8.4	8.0	1.8	NS	1.0 U	1.9	7.2	8.0	5.7	11	3.0	4.2	0.49 J	1.4	36	1.8	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	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	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Chloroethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Chloromethane		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	1.0 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	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Cyclohexane		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	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	2.5 U	2.5 U	2.5 U	NS	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	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	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	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	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	1.0 U	0.69 J	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	1.0 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	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	1.0 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	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	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	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	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	1.0 U	1.0 U	1																

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D- Result of diluted sample shown
M - Manual integrated compound
* - Laboratory control sample / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard 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	4009-19 4/20/2015 Deep ug/L	4009-19 7/29/2015 Deep ug/L	4009-19 11/4/2015 Deep 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	4009-21 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	4009-21 11/28/2016 Deep ug/L
Groundwater Monitoring Zone Units																					
1,1,1-Trichloroethane	5	1.0 U	0.83 J	1.0 U	1.0 U	0.83 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	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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	1.0 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	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	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	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	5.0 U	5.0 U
Acetone	50*	10 U	10 U	10 U	10 U	6.4 J	8.5 J	10 U	10 U	10 U	10 U	10 U	10 U	4.2 J	7.9 J	10 U	10 U	10 U	10 U	10 U	10 U
Benzene	1	0.41 J	1.0 U	0.47 J	1.7	1.0 U	2.7	1.0	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11	31	21	21	19
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	1.0 U	1.0 U
Methylene Chloride	5	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	1.0 U	0.64 J	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl 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	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	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	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	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	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	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	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	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	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	2.0 U	2.0 U
Total VOCs		0.99	0.83	0.47	1.70	7.23	11.2	1.00	0.0	0.0	0.0	0.0	0.0	4.2	7.90	0.0	11.0	31.64	21.0	21.0	19.0
Total VOCs (w/o Acteone or Methylene Chloride)		0.41	0.83	0.47	1.70	0.83	2.70	1.00	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.0	31.0	21.0	21.0	19.0

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

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Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard ug/L	4009-21 4/10/2017 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	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	4009-23S 2/20/2014 Shallow ug/L	4009-23S 5/28/2014 Shallow ug/L	4009-23S 8/28/2014 Shallow ug/L	4009-23S 12/9/2014 Shallow ug/L	4009-23D 2/20/2014 Intermediate ug/L	4009-23D 5/28/2014 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	1.0 U	130 D	720
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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	24	18
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 UJ	1.0 U	1.0 U	10 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	3.2	4.4	2.5 J	2.2	250 D	420
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 UJ	1.0 U	31	78
1,2,3-Trimethylbenzene		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	1.0 U	1.8	0.38 J	0.44 J	5.0 U	10 UD	10 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 UJ	1.0 U	1.0 U	10 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	8.6	2.0	4.2 J	1.0 U	10 UD	10 U
1,2-Dibromo-3-Chloropropane	0.04	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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	10 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	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	0.4 J	10 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 UJ	1.0 U	1.0 U	10 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	4.4	1.2	4.0 J	1.0 U	10 UD	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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	10 U	10 U	10 U*	10 U	10 U	10 UJ	10 U	10 U	100 U
2-Hexanone	50*	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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U
4-Methyl-2-pentanone (MIBK)		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	5.0 U	5.0 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	50 U
Acetone	50*	7.1 J	3.1 J	12	10 U	11	10 U	6.5 J	10.0 U	10.0 U	10.0 U	4.0 J	10 U	10 U	6.5 J	6.1 J	10 U	7.2 J	10 U	8.3 J	100 U
Benzene	1	24	0.7 J	0.7 J	0.92 J	0.98 J	0.82 J	1.2	1.1	1.2	1.6	1.3	1.3	1.1	1.1	1.8	1.8	1.8 J	1.1	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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	1.2 J	0.64 J	11	11
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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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	2.2	2.2	1.9 J	2.9	580 D	450
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 UJ	1.0 U	1.0 U	10 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	0.8 J	0.61 J	0.85 J	1.0 U	1.0 U	10 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 UJ	1.0 U*	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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	0.83 J	1.0 UJ	1.0 U	1.0 U	10 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	5.3	3.6	5.8 J	2.2	1.0 U	10 U
Methyl Acetate		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	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	25 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	0.7 J	0.5 J	1.0 UJ	1.0 U	0.3 J	10 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	0.46 J	1.0 U	1.0 U	1.0 U	1.8	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 U
Methyl Tert Butyl 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U	1.0 U	10 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 UJ	1.0 U*	1.0 U	10 U
Toluene	5	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	1.0 U	0.90 J	1.3	1.0	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	10 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	2.4	2.8	1.8 J	1.8	2.3	10 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 UJ	1.0 U*	1.0 U	10 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	1.6	1.6	1.3 J	1.8	8.7	8.3 J
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 UJ	1.0 U	1.0 U	10 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	0.9 J	1.1	1.1 J	0.80 J	630 D	440
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 UJ	2.0 U	2.0 U	20 U
Total VOCs		31.1	4.44	13.2	2.02	12.8	1.46	8.63	2.20	2.01	2.98	5.30	2.20	2.40	10.40	39.8	23.1	34.1	13.4	1676	2145
Total VOCs (w/o Acteone or Methylene Chloride)																					
		24.0	1.34	1.24	2.02	1.81	1.46	2.13	2.20	2.01	2.52	1.30	2.20	2.40	2.10	33.7	23.1	26.9	13.4	1667	2145

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
^ - This is a duplicate sample from 4009-12
^2 - This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-23D	4009-23D	4009-24	4009-24	4009-24	4009-24	4009-24	4009-25S	4009-25S	4009-25S	4009-25S	4009-25D	4009-25D	4009-25D	4009-25D	4009-26	4009-26	4009-26	4009-26	4009-26	4009-27S
Sampling Date	GA	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	2/20/2014	5/28/2014	8/28/2014	12/9/2014	5/28/2014	8/28/2014	5/28/2014	8/28/2014	12/9/2014	4/10/2017	2/20/2014
Groundwater Monitoring Zone	Standard	Intermediate	Intermediate	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Shallow	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate
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	ug/L	ug/L	ug/L
1,1,1-Trichloroethane	5	140 DJ	570	1.0 U	1.0 U	1.0 UJ	1.0 U	2600 D	3300	9900 DJ	3800	1900 D	3300	820 DJ	1900	98	370	150 DJ	92	100	54	
1,1,2,2-Tetrachloroethane	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,1,2-Trichloro-1,2,2-Trifluoroethane		12 J	8.2	1.0 U	1.0 U	1.0 UJ	1.0 U	31	40 U	40 UDJ	32 J	32	22 J	19 DJ	25 J	7.7	13	6.0 DJ	7.7	5.3	2.8	
1,1,2-Trichloroethane	1	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,1-Dichloroethane	5	220 DJ	280	1.0 U	1.0 U	1.0 UJ	1.0 U	87	140	120 DJ	99	74	120	53 DJ	50	27	39	16 DJ	14	30	1.9	
1,1-Dichloroethene	5	23 J	40	1.0 U	1.0 U	1.0 UJ	1.0 U	110 D	410	650 DJ	280	120 D	330	57 DJ	190	6.0	46	9.9 DJ	7.8	3.8	5.7	
1,2,3-Trimethylbenzene		1.0 UJ	33 U	1.0 U	1.0 U	1.0 UJ	5.0 U	40 UD	40 U	40 UDJ	250 U	20 UD	20 U	20 UDJ	170 U	2.0 UD	8.0 U	2.0 UDJ	10 U	2.0 U	1.0 U	
1,2,4-Trichlorobenzene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2 U	2.0 U	1.0 U	
1,2,4-Trimethylbenzne	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,2-Dibromo-3-Chloropropane	0.04	1.0 UJ	13 U	1.0 U	1.0 U	1.0 UJ	2.0 U	1.0 U	40 U	40 UDJ	100 U	1.0 U	20 U	20 UDJ	67 U	1.0 U	8.0 U	2.0 UDJ	4.0 U	2.0 U	1.0 U	
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,2-Dichlorobenzene	3	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,2-Dichloroethane	0.6	0.39 J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,2-Dichloropropane	1	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	40 UD	40 U	40 UDJ	50 U	20 UD	20 U	20 UDJ	33 U	2.0 UD	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,3-Dichlorobenzene	3	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
1,4-Dichlorobenzene	3	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
2-Butanone (MEK)	50	10 UJ	67 U	1.4 J	10 U	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	10 U	200 U	200 UDJ	330 U	10 U	80 U	2.0 UDJ	20 U	20 U*	10 U	
2-Hexanone	50*	5.0 UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	10 U	5.0 U	
4-Methyl-2-pentanone (MIBK)		5.0 UJ	67 U	5.0 U	5.0 U	5.0 UJ	10 U	5.0 U	200 U	200 UDJ	500 U	5.0 U	100 U	100 UDJ	330 U	5.0 U	40 U	10 UDJ	20 U	10 U	5.0 U	
Acetone	50*	9.8 J	67 U	9.3 J	4.2 J	10 UJ	10 U	10 U	400 U	400 UDJ	500 U	6.0 J	200 U	200 UDJ	330 U	10	80 U	2.0 UDJ	20 U	7.4 J	9.9 J	
Benzene	1	0.62 J	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	0.81 J	8.0 U	2.0 UDJ	0.55 J	2.0 U	1.0 U	
Bromodichloromethane	50	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Bromoform	50*	1.0 UJ	6.7 U*	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U*	1.0 U	20 U	20 UDJ	33 U*	1.0 U	8.0 U	2.0 UDJ	2.0 U*	2.0 U	1.0 U	
Bromomethane	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Carbon disulfide		1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Carbon tetrachloride	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Chlorobenzene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Chloroethane	5	8.2 J	2.8 J	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	3.6	1.0 U	
Chloroform	7	1.0 UJ	6.7 U	1.0 U	1.0 U	0.44 J	0.48 J	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Chloromethane		1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
cis-1,2-Dichloroethene	5	460 DJ	330	1.0 U	1.0 U	2.2 J	1.0 U	180 D	210	490 DJ	260	76	110	100 DJ	260	120 D	190	96 DJ	85	81	18	
cis-1,3-Dichloropropene	0.4	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Cyclohexane		1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Dibromochloromethane	50	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Dichlorodifluoromethane	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	3.9	5.8 J	5.0 DJ	2.8	2.0 U	1.0 U	
Ethylbenzene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Isopropylbenzne (Cumene)	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Methyl Acetate		2.5 UJ	67 U	2.5 U	2.5 U	2.5 UJ	10 U	2.5 U	100 U	100 UDJ	500 U	2.5 U	50 U	50 UDJ	330 U	2.5 U	20 U	5.0 UDJ	20 U	5.0 U	2.5 U	
Methyl Cyclohexane		1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Methylene Chloride	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.4	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Methyl Tert Butyl Ether	10	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Styrene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.0 U	8.0 U	2.0 UDJ	2.0 U	2.0 U	1.0 U	
Tetrachloroethene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U	1.1	8.0 U	0.97 DJ	0.89 J	0.84 J	1.0 U	
Toluene	5	1.0 UJ	6.7 U	1.0 U	1.0 U	1.0 UJ	1.0 U	1.0 U	40 U	40 UDJ	50 U	1.0 U	20 U	20 UDJ	33 U							

Notes
NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-27I 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
1,1,1-Trichloroethane	5	61	65 J	49	61	62	61	58	54	54	61	54	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
1,1,2,2-Tetrachloroethane	5	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	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		3.4	2.3 J	2.6	3.3	3.3	3.5	2.9	2.7	2.4	2.6	3.0	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
1,1,2-Trichloroethane	1	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	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	2.2	2.2 J	1.9 J	2.6	2.7	2.4	2.4	2.1	2.0	2.5	2.4	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	8.9	5.6 J	4.6	6.2	10	7.0	4.5	5.0	4.9	8.8	5.1	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 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	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 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	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 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	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 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	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 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	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 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	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	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	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 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	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 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	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 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	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 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	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 UJ	20 U	10 U	10 U	10 U	10 U	10 U	10 U	10 U	20 U*	10 U	10 U	10 UJ	10 U	10 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	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	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 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	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*	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	5.8 J	10 U	7.9 J	10 U	9.3 J	10 U	10 U	10 U	10 U
Benzene	1	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	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
Bromodichloromethane	50	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	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 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	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 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	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 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	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
Carbon tetrachloride	5	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	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 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	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 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	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 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	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 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	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	20	19 J	19	21	24	21	22	20	20	23	20	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 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	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 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	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 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	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 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	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 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	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 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	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 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	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 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	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 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	1.0 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 Butyl Ether	10	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	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 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	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 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	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	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	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
trans-1,2-Dichloroethene	5	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	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 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	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	28	24 J	22	25	28	25	24	23	22	24	22	1.4	1.1	1.2 J	0.34 J	1.0 U	1.9	1.0 U	1.4	0.84 J
Trichlorofluoromethane	5	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	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	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	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 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	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		128	126	99.1	127.2	130	120	114	108	105	119	107	7.20	1.47	11.1	1.97	10.17	2.21	0.61	1.79	3.49
Total VOCs (w/o Acteone or Methylene Chloride)			124	118	99.1	119.1	130	114	108	105	119	107	1.40	1.47	3.21	1.97	0.87	2.21	0.61	1.79	3.49

Notes
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- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	4009-27I 9/29/2016 Intermediate ug/L	4009-27I 11/28/2016 Intermediate ug/L	4009-27I** 4/10/2017 Intermediate ug/L	DUP_01 ² 4/10/2017 Shallow 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	4009-27D** 4/10/2017 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
Groundwater Monitoring Zone Units																					
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 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	2.7	1.0 U	3.0
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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 U	1.0 U	1.0 U	0.28 J
1,1-Dichloroethene	5	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	1.0 U	1.0 U	0.3 J	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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 UJ	10 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 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	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 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	5.0 U	5.0 U	5.0 U	10 U
Acetone	50*	10 U	10 U	5.3 J	6.4 J	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	3.9 J	7.9 J	3.7 J	6.8 J	10 U
Benzene	1	4.6	1.5	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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 U	1.0 U	1.0 U	0.25 J
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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	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 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	1.0 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 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	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 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 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	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	1.0 U	0.74 J	0.75 J	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	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 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	1.0 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 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	1.0 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	1.0 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	2.0 U	2.0 U	2.0 U	2.0 U	2.0 U
Total VOCs		4.60	1.50	6.04	7.15	9.80	4.80	8.48	0.0	7.10	0.0	0.0	0.60	0.0	0.0	0.0	3.9	9.20	6.71	6.80	3.53
Total VOCs (w/o Acteone or Methylene Chloride)		4.60	1.50	0.74	0.75	0.0	0.0	0.48	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.30	3.01	0.0	3.53	

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-27I
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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	4009-28 11/28/2016 Deep ug/L	4009-28 4/10/2017 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	4009-29S 9/29/2016 Intermediate ug/L	4009-29S 11/28/2016 Intermediate ug/L	4009-29S** 4/10/2017 Intermediate ug/L
1,1,1-Trichloroethane	5	2.9	2.9	2.3	1.9	2.5	2.5	2.5	1.0 U	710 D	650	1000 DJ	480	830	850	760	800 D	460	430	23	480
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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	12	10 U	7.1 DJ	17 U	8.7 J	7.3 J	20 U	7.1	20 U	1.0 U	2.0 U	5.0
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	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	1.0 U	1.0 U	1.0	1.0 U	1.0 U	1.0 U	1.0 U	130 D	35	46 D	29	38	55	49	58	69	52	50	82
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	92	89	62 D	33	37	130	84	45	33	27	3.2	32
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	10 U	10 UD	83 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	33 U	20 U	20 U	20 U	20 U	20 U	1.0 U	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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U	10 U	20 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	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U	5.0 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	50 U	50 UD	170 U	100 U	100 U	100 U	100 U	100 U	5.0 U	10 U	5.0 U
Acetone	50*	6.1 J	10 U	10.0 U	10.0 U	10 U	10 U	10 U	9.3 J	6.0 J	100 U	100 UD	170 U	200 U	200 U	200 U	200 U	200 U	10 U	8.0 J	4.9 J
Benzene	1	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.9	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	98	2.7
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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 U	1.0 U
Carbon disulfide		0.22 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	1.0 U	2.0 U	0.23 J
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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	2.9	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 U	2.1
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	0.69 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.49 J	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	260 D	340	410 D	270	320	480	310	390 D	190	200	59	180
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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	1.3	10 U	10 UD	17 U	20 U	20 U	20 U	1.5	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	25 U	25 UD	170 U	20 U	20 U	50 U	50 U	50 U	2.5 U	5.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	5.6 J*	20 U	20 U	20 U	0.58 J	20 U	1.0 U	2.0 U	1.0 U
Methyl Tert Butyl 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	0.95 J	10 U	10 UD	17 U	20 U	20 U	20 U	0.42 J	20 U	1.0 U	2.0 U	0.36 J
Toluene	5	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.0 U	1.8	1.0 U	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	1.5	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	1.5	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	300 D	10 U	27 D	3.5 J	20 U	20 U	20 U	9.2	20 U	1.0 U	2.0 U	17
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	10 U	10 UD	17 U	20 U	20 U	20 U	20 U	20 U	1.0 U	2.0 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	43	15	42 D	16 J	24	65	82	120 D	78	95	2.5	130
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	20 U	20 UD	33 U	40 U	40 U	40 U	40 U	40 U	2.0 U	4.0 U	2.0 U
Total VOCs		9.22	2.90	0.0	2.90	2.50	2.50	2.50	14.00	1560	1129	1594	837	1257.7	1587	1285	1434	830	804	245	936
Total VOCs (w/o Acteone or Methylene Chloride)		3.12	2.90	0.0	2.90	2.50	2.50	2.50	4.70	1554	1129	1594	832	1257.7	1587	1285	1434	830	804	237	931

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
reported concentration is estimated
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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Table 2-3 Summary of Groundwater Results
Remedial Site Optimization Report First Quarter 2017
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29I	4009-29D	4009-29D	4009-29D	4009-29D	4009-29D	4009-29D	4009-29D	4009-29D	4009-29D
Sampling Date	GA	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016	11/28/2016	4/10/2017	2/20/2014	5/28/2014	8/28/2014	12/9/2014	4/20/2015	7/29/2015	11/4/2015	3/28/2016	6/30/2016
Groundwater Monitoring Zone	Standard	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Intermediate	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep	Deep
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	ug/L	ug/L
1,1,1-Trichloroethane	5	1700 D	1600	130 DJ	1100	1500	1700	1400	1400 D	1200	2.0 U	1000	1.0 U	80	1200 DJ	170	290	30	14	23	16
1,1,2,2-Tetrachloroethane	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		21	25 U	2.0 UDJ	15 J	15 J	40 U	40 U	14	15 J	2.0 U	12	1.0 U	1.1	14	2.9 J	3.6 J	1.0 U	1.0 U	0.40 J	1.0 U
1,1,2-Trichloroethane	1	0.86 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.57 J	25 U	2.0 U	0.6 J	1.0 U	1.0 U	0.65 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	83	96	21 DJ	82	100	100	90	69	71	3.9	89	1.1	16	150 DJ	27	51	12	4.2	5.5	4.0
1,1-Dichloroethene	5	150 D	230	6.4 DJ	92	85	240	200	77	93	2.0 U	80	1.0 U	12	130 DJ	27	29	5.7	2.0	2.0	1.3
1,2,3-Trimethylbenzene		1.0 U	25 U	2.0 UDJ	200 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	29 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trichlorobenzene	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	25 U	2.0 UDJ	80 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	11 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichlorobenzene	3	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	0.41 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	250 U	2.0 UDJ	400 U	400 U	400 U	400 U	10 U	250 U	20 U	10 U*	10 U	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U
4-Methyl-2-pentanone (MIBK)		5.0 U	130 U	10 UDJ	400 U	200 U	200 U	200 U	5.0 U	130 U	10 U	5.0 U	5.0 U	5.0 U	5.0 U	57 U	25 U	5.0 U	5.0 U	5.0 U	5.0 U
Acetone	50*	11	250 U	12 DJ	400 U	400 U	400 U	400 U	10 U	250 U	6.1 J	5.2 J	6.9 J	10 U	10 U	57 U	50 U	10 U	10 U	10 U	10 U
Benzene	1	0.59 J	25 U	41 DJ	40 U	40 U	40 U	40 U	0.48 J	25 U	120	0.71 J	1.0 U	1.0 U	0.72 J	5.7 U	5.0 U	0.70 J	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromoform	50*	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Bromomethane	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Carbon tetrachloride	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.6	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	2.0 U	1.1	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloroethane	5	5.0	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	2.7	25 U	29	3.9	1.0 U	1.4	8.8 DJ	5.7 U	2.5 J	1.0 U	1.2	1.2	1.5
Chloroform	7	1.1	25 U	1.1 DJ	40 U	40 U	40 U	40 U	0.77 J	25 U	2.0 U	0.67 J	1.0 U	1.0 U	0.83 J	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Chloromethane		1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	400 D	400	53 DJ	330	380	530	410	420 D	340	41	330	1.4	25	400 DJ	150	210	37	8.0	9.9	5.7
cis-1,3-Dichloropropene	0.4	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dibromochloromethane	50	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Dichlorodifluoromethane	5	1.2	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.9	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.5	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	63 U	5.0 UDJ	400 U	100 U	100 U	100 U	2.5 U	63 U	5.0 U	2.5 U	2.5 U	2.5 U	2.5 U	57 U	13 U	2.5 U	2.5 U	2.5 U	2.5 U
Methyl Cyclohexane		1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Methylene Chloride	5	1.0 U	25 U	1.2 DJ	14 J*	18 J	40 U	40 U	0.60 J	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	2.0 J*	5.0 U	1.0 U	1.0 U	0.48 J	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	2.1	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.8	25 U	2.0 U	1.4	1.0 U	1.0 U	1.0	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	25 U	3.7 DJ	40 U	40 U	40 U	40 U	1.0 U	25 U	1.7 J	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	3.4	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.3	25 U	2.0 U	1.2	1.0 U	1.0 U	1.8	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	1.0 U	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	450 D	460	34 DJ	360	410	550	480	450 D	370	2.0	340 J	1.8	17	400 DJ	26	20	0.78 J	0.94 J	3.3	2.0
Trichlorofluoromethane	5	0.94 J	25 U	2.0 UDJ	40 U	40 U	40 U	40 U	0.92 J	25 U	2.0 U	1.0 U	1.0 U	1.0 U	1.0 U	5.7 U	5.0 U	1.0 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	85	85	6.6 DJ	78	92	140	110	94	85	2.0	130 U	4.7	12							

Notes
NYSDEC GA GW Standard - New York State Department of
Environmental Conservation Groundwater Standard
- Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or
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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 / duplicate exceeds control limits.
¹-This is a duplicate sample from 4009-12
²-This is a duplicate sample from 4009-271
**-Revised results due to mislabeling 27 and 29 clusters in field.

Notes

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* - Laboratory control sample / duplicate exceeds control limits.

¹- This is a duplicate sample from 4009-12

²- This is a duplicate sample from 4009-271

******- Revised results due to mislabeling 27 and 29 clusters in field.

Sample ID Sampling Date Groundwater Monitoring Zone Units	NYSDEC GA Standard 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
1,1,1-Trichloroethane	5	240	350	250	210	310	220	NS
1,1,2,2-Tetrachloroethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,1,2-Trichloro-1,2,2-Trifluoroethane		5.0 U	5.0 U	4.3 J	4.3 J	6.3	5.0 U	NS
1,1,2-Trichloroethane	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,1-Dichloroethane	5	18	28	22	14	22	18	NS
1,1-Dichloroethene	5	30	41	16	5.0 U	20	31	NS
1,2,3-Trimethylbenzene		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2,4-Trichlorobenzene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2,4-Trimethylbenzne	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2-Dibromo-3-Chloropropane	0.04	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2-Dibromoethane (Ethylene Dibromide)	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2-Dichlorobenzene	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2-Dichloroethane	0.6	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,2-Dichloropropane	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,3,5-Trimethylbenzene (Mesitylene)	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,3-Dichlorobenzene	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
1,4-Dichlorobenzene	3	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
2-Butanone (MEK)	50	50 U	50 U	50 U	50 U	50 U	50 U	NS
2-Hexanone	50*	25 U	25 U	25 U	25 U	25 U	25 U	NS
4-Methyl-2-pentanone (MIBK)		25 U	25 U	25 U	25 U	25 U	25 U	NS
Acetone	50*	50 U	50 U	50 U	50 U	50 U	50 U	NS
Benzene	1	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Bromodichloromethane	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Bromoform	50*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Bromomethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Carbon disulfide		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Carbon tetrachloride	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Chlorobenzene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Chloroethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Chloroform	7	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Chloromethane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
cis-1,2-Dichloroethene	5	66	82	68	52	77	62	NS
cis-1,3-Dichloropropene	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Cyclohexane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Dibromochloromethane	50	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Dichlorodifluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Ethylbenzene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Isopropylbenzne (Cumene)	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Methyl Acetate		13 U	13 U	13 U	13 U	13 U	13 U	NS
Methyl Cyclohexane		5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Methylene Chloride	5	5.0 U	5.0 U	5.9 B	5.0 U	5.0 U	5.0 U	NS
Methyl Tert Butyl Ether	10	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Styrene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Tetrachloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Toluene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
trans-1,2-Dichloroethene	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
trans-1,3-Dichloropropene	0.4	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Trichloroethene	5	64	81	59	56	69	66	NS
Trichlorofluoromethane	5	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Vinyl chloride	2	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	NS
Xylenes, Total		10 U	10 U	10 U	10 U	10 U	10 U	NS
Total VOCs		418	582	425	336	504	397	
Total VOCs (w/o Acteone or Methylene Chloride)		418	582	419	336	504	397	

Notes
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**-Revised results due to mislabeling 27 and 29 clusters in field.

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**	Well 1-2A Influent 4/9/2015
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	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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	NA
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	0.5 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	NS	NS	NS	0.5 U
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	NA
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	NA
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	NA
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	NA
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	NA
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	NS	NS	NS	NA
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	0.5 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	NS	NS	NS	NA
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	NA
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	0.5 U
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	NA
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	NA
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	NA
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	NA
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 U
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	NA
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	NA
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	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 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	NS	NS	NS	0.5 U
Total VOCs		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
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control 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 ug/L	Well 1-2A Influent 4/20/2015 ug/L	Well 1-2A Influent 5/6/2015 ug/L	Well 1-2A Influent 5/12/2015 ug/L	Well 1-2A Influent 6/9/2015 ug/L	Well 1-2A Influent 6/25/2015 ug/L	Well 1-2A Influent 7/29/2015 ug/L	Well 1-2A Influent 8/11/2015 ug/L	Well 1-2A Influent 8/28/2015 ug/L	Well 1-2A Influent 9/15/2015 ug/L	Well 1-2A Influent 9/24/2015 ug/L	Well 1-2A Influent 10/12/2015 ug/L	Well 1-2A Influent 11/4/2015 ug/L	Well 1-2A Influent 11/10/2015 ug/L	Well 1-2A Influent 12/21/2015 ug/L	Well 1-2A Influent 1/19/2016 ug/L	Well 1-2A Influent 1/27/2016 ug/L	Well 1-2A Influent 2/16/2016 ug/L	Well 1-2A Influent 2/26/2016 ug/L	Well 1-2A Influent 3/22/2016 ug/L
1,1,1-Trichloroethane	5	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	1.0 U	0.5 U
1,1,2,2-Tetrachloroethane	5	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	1.0 U	0.5 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		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	1.0 U	NA
1,1,2-Trichloroethane	1	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	1.0 U	0.5 U
1,1-Dichloroethane	5	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	1.0 U	0.5 U
1,1-Dichloroethene	5	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	1.0 U	0.5 U
1,2,3-Trimethylbenzene		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	1.0 U	NA
1,2,4-Trichlorobenzene	5	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	1.0 U	0.5 U
1,2,4-Trimethylbenzne	5	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	1.0 U	0.5 U
1,2-Dibromo-3-Chloropropane	0.04	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	1.0 U	NA
1,2-Dibromoethane (Ethylene Dibromide)	5	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	1.0 U	NA
1,2-Dichlorobenzene	3	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	1.0 U	0.5 U
1,2-Dichloroethane	0.6	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	1.0 U	0.5 U
1,2-Dichloropropane	1	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	1.0 U	0.5 U
1,3,5-Trimethylbenzene (Mesitylene)	5	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	1.0 U	0.5 U
1,3-Dichlorobenzene	3	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	1.0 U	0.5 U
1,4-Dichlorobenzene	3	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	1.0 U	0.5 U
2-Butanone (MEK)	50	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	10 U	NA
2-Hexanone	50*	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	5.0 U	NA
4-Methyl-2-pentanone (MIBK)		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	5.0 U	NA
Acetone	50*	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	10 U	NA
Benzene	1	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	1.0 U	0.5 U
Bromodichloromethane	50	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	1.0 U	0.5 U
Bromoform	50*	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	1.0 U	0.5 U
Bromomethane	5	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	1.0 U	0.5 U
Carbon disulfide		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	1.0 U	0.5 U
Carbon tetrachloride	5	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	1.0 U	0.5 U
Chlorobenzene	5	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	1.0 U	0.5 U
Chloroethane	5	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	1.0 U	0.5 U
Chloroform	7	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	1.0 U	NA
Chloromethane		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	1.0 U	0.5 U
cis-1,2-Dichloroethene	5	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	1.0 U	0.5 U
cis-1,3-Dichloropropene	0.4	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	1.0 U	0.5 U
Cyclohexane		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	1.0 U	NA
Dibromochloromethane	50	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	1.0 U	NA
Dichlorodifluoromethane	5	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	1.0 U	0.5 U
Ethylbenzene	5	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	1.0 U	0.5 U
Isopropylbenzne (Cumene)	5	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	1.0 U	NA
Methyl Acetate		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	2.5 U	NA
Methyl Cyclohexane		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	1.0 U	NA
Methylene Chloride	5	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	1.0 U	0.5 U
Methyl Tert Butyl Ether	10	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	1.0 U	NA
Styrene	5	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	1.0 U	0.5 U
Tetrachloroethene	5	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	1.0 U	0.5 U
Toluene	5	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	1.0 U	0.5 U
trans-1,2-Dichloroethene	5	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	1.0 U	0.5 U
trans-1,3-Dichloropropene	0.4	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	1.0 U	0.5 U
Trichloroethene	5	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	1.0 U	0.5 U
Trichlorofluoromethane	5	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	1.0 U	0.5 U
Vinyl chloride	2	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	1.0 U	0.5 U
Xylenes, Total		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	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	0

Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Notes
 NYSDEC GA GW Standard - New York State Department
 of Environmental Conservation Groundwater Standard
 [REDACTED] - Concentration exceeds NYSDEC Class GA Standard
 NA - Not Analyzed
 NS - Not Sampled
 U - Compound was not detected at the indicated concentration
 * LCS or LCSD exceeds the control 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
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
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
1,1,2,2-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
1,1,2-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
1,1,2-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
1,1-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
1,1-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
1,2,3-Trimethylbenzene		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	5.0 U	NA	NA
1,2,4-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
1,2,4-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
1,2-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
1,2-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
1,2-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
1,2-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
1,2-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
1,3,5-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
1,3-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
1,4-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
2-Butanone (MEK)	50	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA
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
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
Acetone	50*	NA	10 U	NA	10 U	10.0 U	NA	10 U	NA	NA	10 U	10 U	NA	NA
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
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
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
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
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
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
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
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
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
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
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
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
Cyclohexane		NA	NA	NA	1.0 U	1.0 U	NA	1.0 U	NA	NA	1.0 U	1.0 U	NA	NA
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
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
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
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
Methyl Acetate		NA	NA	NA	2.5 U	NA U	NA	2.5 U	NA	NA	2.5 U	10 U	NA	NA
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
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
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
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
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
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
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
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
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
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
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
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
Total VOCs		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
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control 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 ug/L	Well 1-3 Influent 1/29/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 2/25/2015 ug/L	Well 1-3 Influent 3/12/2015 ug/L	Well 1-3 Influent 3/19/2015 ug/L	Well 1-3 Influent 4/9/2015 ug/L	Well 1-3 Influent 4/20/2015 ug/L	Well 1-3 Influent 5/6/2015 ug/L	Well 1-3 Influent 5/12/2015 ug/L	Well 1-3 Influent 6/9/2015 ug/L	Well 1-3 Influent 6/25/2015 ug/L	Well 1-3 Influent 7/29/2015 ug/L	Well 1-3 Influent 8/11/2015 ug/L	Well 1-3 Influent 8/28/2015 ug/L	Well 1-3 Influent 9/15/2015 ug/L	Well 1-3 Influent 9/24/2015 ug/L	Well 1-3 Influent 10/12/2015 ug/L	Well 1-3 Influent 11/4/2015 ug/L
1,1,1-Trichloroethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1,2,2-Tetrachloroethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		1.0 U	NS	1.0 U	NA	1.0 U	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
1,1,2-Trichloroethane	1	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,1-Dichloroethene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2,3-Trimethylbenzene		1.0 U	NS	1.0 U	0.5 U	1.0 U	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
1,2,4-Trichlorobenzene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2,4-Trimethylbenzne	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
1,2-Dibromoethane (Ethylene Dibromide)	5	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
1,2-Dichlorobenzene	3	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,2-Dichloropropane	1	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
1,4-Dichlorobenzene	3	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
2-Butanone (MEK)	50	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U
2-Hexanone	50*	5.0 U	NS	5.0 U	NA	5.0 U	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
4-Methyl-2-pentanone (MIBK)		5.0 U	NS	5.0 U	NA	5.0 U	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
Acetone	50*	10 U	NS	10 U	NA	10 U	NA	10 U	10 U	NA	NA	10 U	10 U	NA	10 U	NA	10 U	10 U	10 U
Benzene	1	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Bromodichloromethane	50	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
Bromoform	50*	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
Bromomethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Carbon disulfide		1.0 U	NS	1.0 U	NA	1.0 U	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
Carbon tetrachloride	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	NA	1.0 U	1.0 U	1.0 U
Chlorobenzene	5	1.0 U	NS	1.0 U	NA	1.0 U	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
Chloroethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Chloroform	7	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
Chloromethane		1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
cis-1,2-Dichloroethene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
cis-1,3-Dichloropropene	0.4	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Cyclohexane		1.0 U	NS	1.0 U	NA	1.0 U	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
Dibromochloromethane	50	1.0 U	NS	1.0 U	0.5 U	1.0 U	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
Dichlorodifluoromethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Ethylbenzene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Isopropylbenzne (Cumene)	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Methyl Acetate		2.5 U	NS	2.5 U	NA	2.5 U	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
Methyl Cyclohexane		1.0 U	NS	1.0 U	NA	1.0 U	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
Methylene Chloride	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Methyl Tert Butyl Ether	10	1.0 U	NS	1.0 U	1 U	1.0 U	0.5 U	1.0 U	1.0 U	0.5 U	0.5 U	1.0 U	1.0 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U	1.0 U
Styrene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Tetrachloroethene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Toluene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
trans-1,2-Dichloroethene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
trans-1,3-Dichloropropene	0.4	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Trichloroethene	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Trichlorofluoromethane	5	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Vinyl chloride	2	1.0 U	NS	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	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	1.0 U	1.0 U
Xylenes, Total		2.0 U	NS	2.0 U	0.5 U	2.0 U	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
Total VOCs		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
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

Notes

NYSDDEC GA GW Standard - New York State Department
 of Environmental Conservation Groundwater Standard
 [REDACTED] - Concentration exceeds NYSDDEC Class GA Standard
 NA - Not Analyzed
 NS - Not Sampled
 U - Compound was not detected at the indicated concentration
 * LCS or LCSD exceeds the control limits
 * Well 1-2A was frozen and unable to be sampled

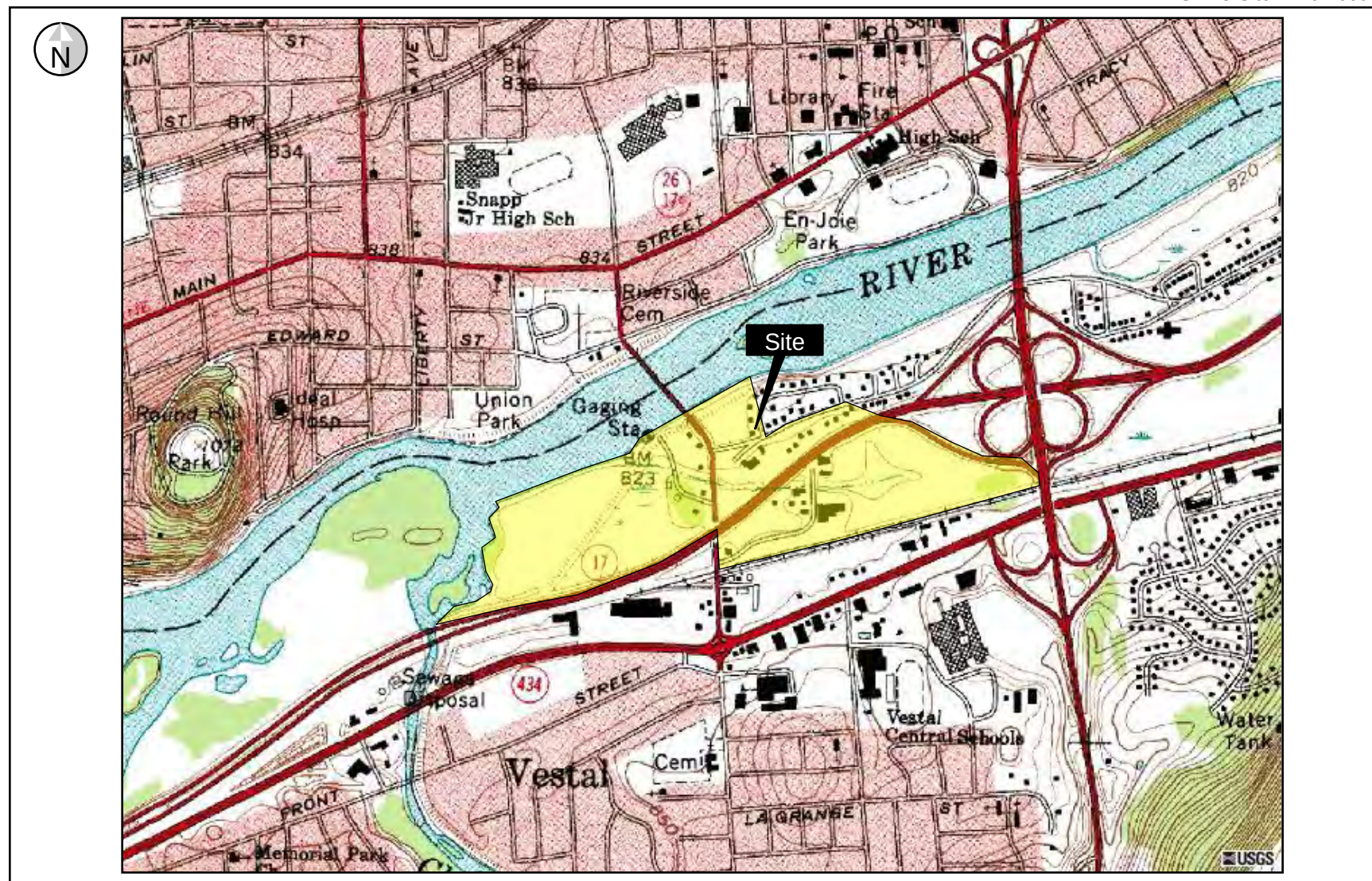
Table 2-4 Summary of Town of Vestal Municipal Well Sampling Results
Remedial Site Optimization
Vestal Water Supply Site
Site Number 7-04-009A

Sample ID	NYSDEC GA Standard	Well 1-3 Influent 12/29/2016 ug/L	Well 1-3 Influent 1/13/2017 ug/L	Well 1-3 Influent 1/31/2017 ug/L	Well 1-3 Influent 2/7/2017 ug/L	Well 1-3 Influent 2/27/2017 ug/L	Well 1-3 Influent 3/7/2017 ug/L	Well 1-3 Influent 3/23/2017 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
1,1,2,2-Tetrachloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1,2-Trichloro-1,2,2-Trifluoroethane		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
1,1-Dichloroethane	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,1-Dichloroethene	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2,3-Trimethylbenzene		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
1,2,4-Trimethylbenzne	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dibromo-3-Chloropropane	0.04	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
1,2-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloroethane	0.6	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,2-Dichloropropane	1	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3,5-Trimethylbenzene (Mesitylene)	5	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,3-Dichlorobenzene	3	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U	0.5 U	1.0 U
1,4-Dichlorobenzene	3	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
2-Hexanone	50*	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
Acetone	50*	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
Bromodichloromethane	50	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
Bromomethane	5	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
Carbon tetrachloride	5	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
Chloroethane	5	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
Chloromethane		1.0 U	NA	1.0 U	NA	1.0 U*	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
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
Cyclohexane		1.0 U	NA	1.0 U	NA	1.0 U	NA	1.0 U
Dibromochloromethane	50	1.0 U	NA	1.0 U	NA	1.0 U	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
Ethylbenzene	5	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
Methyl Acetate		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
Methylene Chloride	5	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
Styrene	5	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
Toluene	5	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
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
Trichloroethene	5	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
Vinyl chloride	2	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
Total VOCs		0	0	0	0	0	0	0

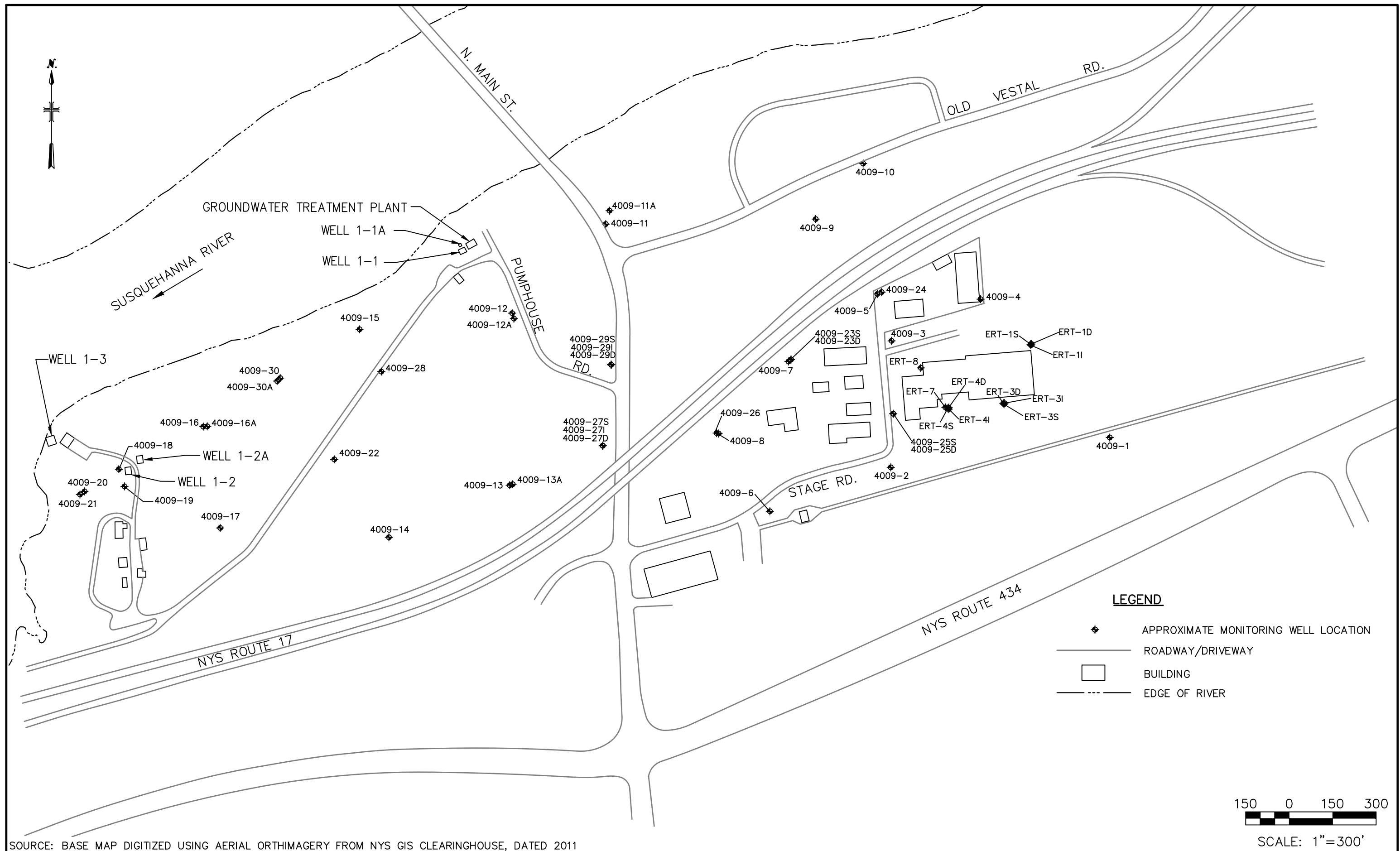
Notes
NYSDEC GA GW Standard - New York State Department
of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
NA - Not Analyzed
NS - Not Sampled
U - Compound was not detected at the indicated concentration
* LCS or LCSD exceeds the control limits
** Well 1-2A was frozen and unable to be sampled

FIGURES





Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).



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



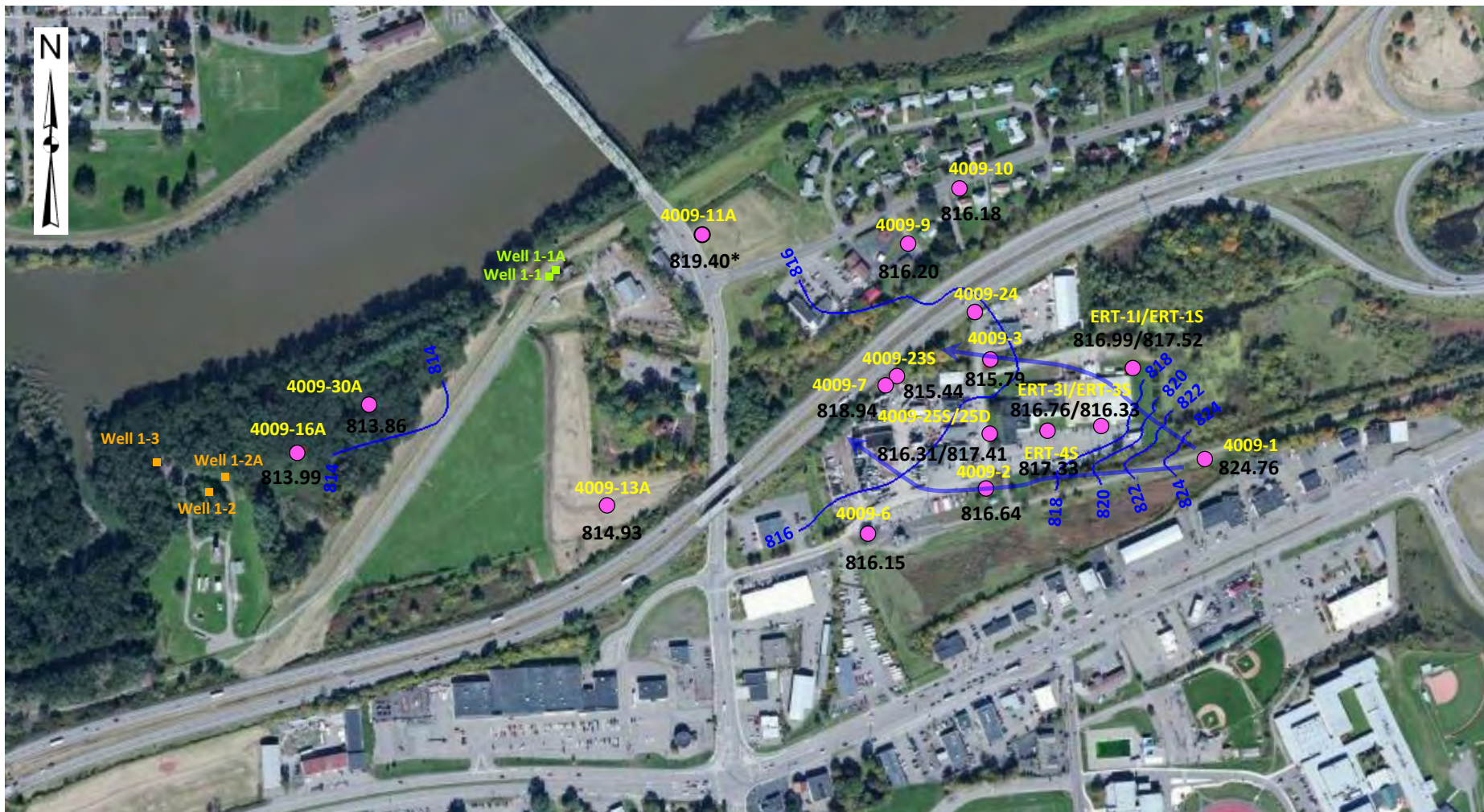
NYSDEC STANDBY CONTRACT NO. D007618-7
NYSDEC SITE NO. 7-04-009
VESTAL WATER SUPPLY
VESTAL, NEW YORK

MONITORINIG WELL LOCATION MAP

SCALE: AS SHOWN

MARCH 2017

FIGURE 2-1



LEGEND

Well 1-1A



EXTRACTION WELL & IDENTIFIER

4009-16A



MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)

804.12



GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)

Well 1-3



WATER SUPPLY WELL & IDENTIFIER

* Anomalous Reading
not used for contouring

0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Shallow Potentiometric Surface
with Well 1-1A Inactive
(April 10, 2017)

ARCADIS | 2-2

Figure



LEGEND

Well 1-1A



EXTRACTION WELL & IDENTIFIER

4009-12A



MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)

803.75

GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)



Well 1-3



WATER SUPPLY WELL & IDENTIFIER

* Anomalous Reading
not used for contouring

0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

Intermediate Potentiometric
Surface with Well 1-1A Inactive
(April 10, 2017)

ARCADIS | 2-3

Figure



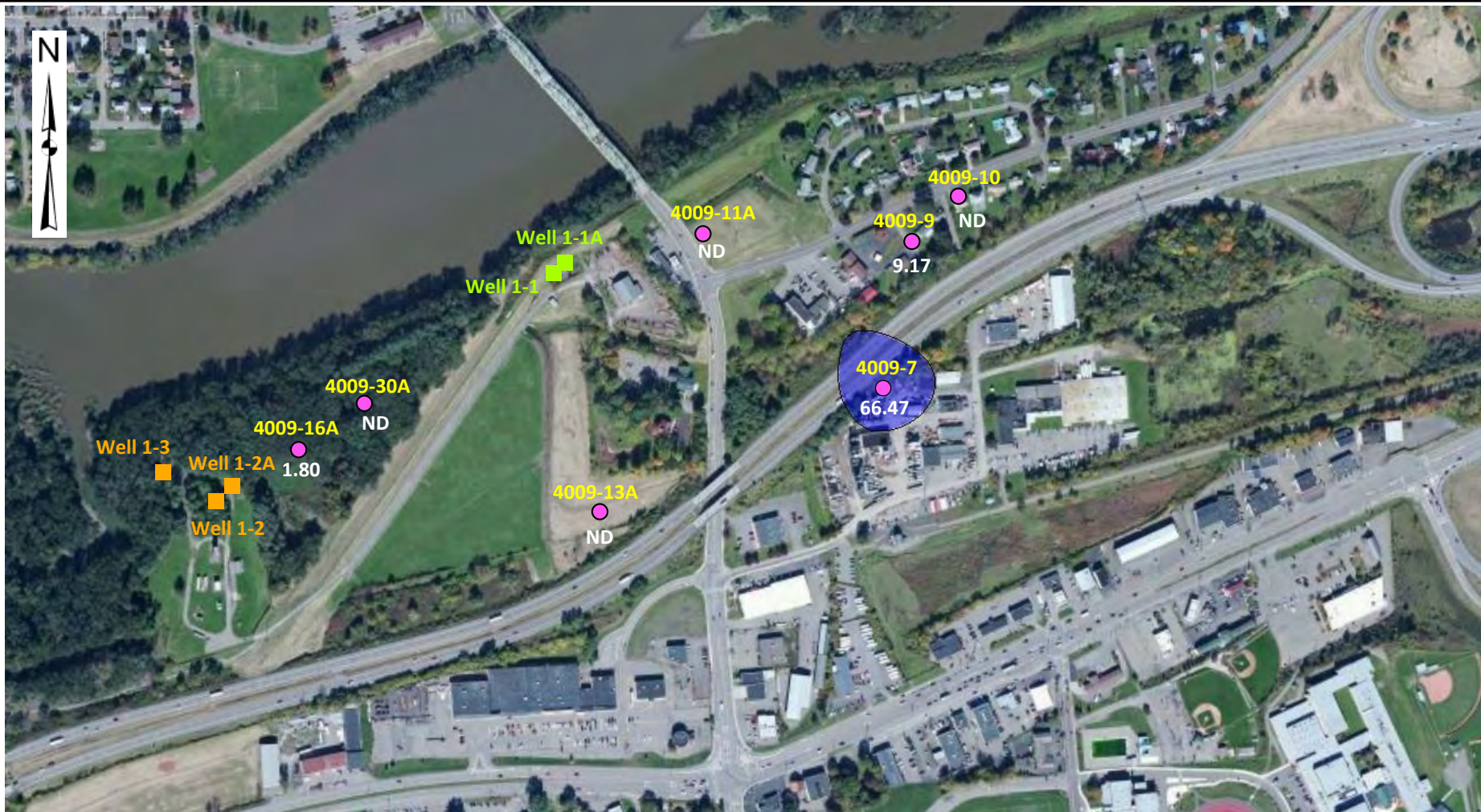
LEGEND

- Well 1-1A
EXTRACTION WELL & IDENTIFIER
- 4009-15
MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 804.01
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3
WATER SUPPLY WELL & IDENTIFIER

0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Deep Potentiometric Surface
with Well 1-1A Inactive
(April 10, 2017)**



LEGEND

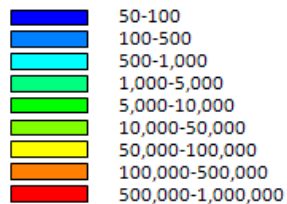
Well 1-3
WATER SUPPLY WELL &
IDENTIFIER

4009-7
MONITORING WELL &
IDENTIFIER

42.8
Total VOC Concentration(ug/L);
“ND” indicates no detection

Well 1-1
EXTRACTION WELL &
IDENTIFIER

TOTAL VOCS (ug/L)



0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Total VOC Concentrations
(Shallow Wells)
April 10, 2017**



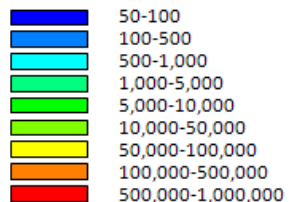
LEGEND

Well 1-3
WATER SUPPLY WELL &
IDENTIFIER

4009-12A
MONITORING WELL &
IDENTIFIER
30.7
Total VOC Concentration(ug/L);
"ND" indicates no detection

Well 1-1
EXTRACTION WELL &
IDENTIFIER

TOTAL VOCs (ug/L)



0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

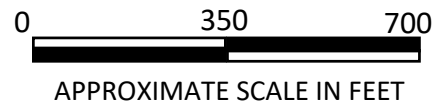
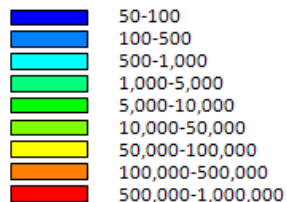
Total VOC Concentrations
(Intermediate Wells)
April 10, 2017



LEGEND

- Well 1-3**
 WATER SUPPLY WELL & IDENTIFIER
- 4009-7**
 MONITORING WELL & IDENTIFIER
 55.7
 Total VOC Concentration(ug/L);
 "ND" indicates no detection
- Well 1-1**
 EXTRACTION WELL & IDENTIFIER

TOTAL VOCs (ug/L)



Vestal Water Supply
 NYSDEC Site #7-04-009
 Vestal, New York

Total VOC Concentrations
 (All Wells)
 April 10, 2017



Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Benzene Concentrations
(Shallow Wells)**
April 10, 2017



LEGEND

- Well 1-3**
WATER SUPPLY WELL & IDENTIFIER
- 4009-12A**
MONITORING WELL & IDENTIFIER
Benzene Concentration(ug/L);
"ND" indicates no detection
- Well 1-1**
EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- 1.0 - 5.0
5.0 - 10
10 - 50 +

0 350 700
APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Benzene Concentrations
(Intermediate Wells)**
April 10, 2017



LEGEND

- Well 1-3** (orange square) WATER SUPPLY WELL & IDENTIFIER
- 4009-15** (pink circle) MONITORING WELL & IDENTIFIER
Benzene Concentration(ug/L);
"ND" indicates no detection
- Well 1-1** (green square) EXTRACTION WELL & IDENTIFIER

Concentration of Benzene (ug/l)

- (purple) 1.0 - 5.0
- (blue) 5.0 - 10
- (cyan) 10 - 50 +

0 350 700

APPROXIMATE SCALE IN FEET

Vestal Water Supply
NYSDEC Site #7-04-009
Vestal, New York

**Benzene Concentrations
(Deep Wells)
April 10, 2017**

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: 480-112860-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

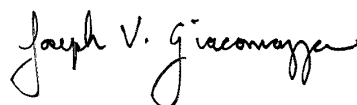
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

2/7/2017 1:15:45 PM

Joe Giacomazza, Project Management Assistant II

joe.giacomazza@testamericainc.com

Designee for

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

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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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	15
Lab Chronicle	16
Certification Summary	17
Method Summary	18
Sample Summary	19
Chain of Custody	20
Receipt Checklists	21



Definitions/Glossary

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

TestAmerica Job ID: 480-112860-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 480-112860-1

Job ID: 480-112860-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-112860-1

Receipt

The samples were received on 1/31/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.6° 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: 480-112860-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-112860-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-112860-2

No Detections.

Client Sample ID: TRIP BLANK 13017

Lab Sample ID: 480-112860-3

No Detections.

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: 480-112860-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-112860-1

Date Collected: 01/30/17 09:25

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 22:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/03/17 22:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/03/17 22:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/03/17 22:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/03/17 22:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/03/17 22:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/03/17 22:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/03/17 22:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/03/17 22:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/03/17 22:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/03/17 22:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 22:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/03/17 22:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/03/17 22:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/03/17 22:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/03/17 22:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/03/17 22:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/03/17 22:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/03/17 22:45	1
Acetone	10	U	10	3.0	ug/L			02/03/17 22:45	1
Benzene	1.0	U	1.0	0.41	ug/L			02/03/17 22:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/03/17 22:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/03/17 22:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/03/17 22:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/03/17 22:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/03/17 22:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/03/17 22:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/03/17 22:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/03/17 22:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/03/17 22:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/03/17 22:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/03/17 22:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/03/17 22:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/03/17 22:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/03/17 22:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/03/17 22:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/03/17 22:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/03/17 22:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/03/17 22:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/03/17 22:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/03/17 22:45	1
Styrene	1.0	U	1.0	0.73	ug/L			02/03/17 22:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/03/17 22:45	1
Toluene	1.0	U	1.0	0.51	ug/L			02/03/17 22:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/03/17 22:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/03/17 22:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/03/17 22:45	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/03/17 22:45	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-112860-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-112860-1

Date Collected: 01/30/17 09:25

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 22:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/03/17 22:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					02/03/17 22:45	1
4-Bromofluorobenzene (Surr)	101		73 - 120					02/03/17 22:45	1
Dibromofluoromethane (Surr)	106		75 - 123					02/03/17 22:45	1
Toluene-d8 (Surr)	98		80 - 120					02/03/17 22:45	1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-112860-2

Date Collected: 01/30/17 09:30

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 23:09	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 23:09	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/03/17 23:09	1
1,1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/03/17 23:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/03/17 23:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/03/17 23:09	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/03/17 23:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/03/17 23:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/03/17 23:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/03/17 23:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/03/17 23:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/03/17 23:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 23:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/03/17 23:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/03/17 23:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/03/17 23:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/03/17 23:09	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/03/17 23:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/03/17 23:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/03/17 23:09	1
Acetone	10	U	10	3.0	ug/L			02/03/17 23:09	1
Benzene	1.0	U	1.0	0.41	ug/L			02/03/17 23:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/03/17 23:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/03/17 23:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/03/17 23:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/03/17 23:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/03/17 23:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/03/17 23:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/03/17 23:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/03/17 23:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/03/17 23:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/03/17 23:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/03/17 23:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/03/17 23:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/03/17 23:09	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-112860-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-112860-2

Date Collected: 01/30/17 09:30

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 23:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/03/17 23:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/03/17 23:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/03/17 23:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/03/17 23:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/03/17 23:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/03/17 23:09	1
Styrene	1.0	U	1.0	0.73	ug/L			02/03/17 23:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/03/17 23:09	1
Toluene	1.0	U	1.0	0.51	ug/L			02/03/17 23:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/03/17 23:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/03/17 23:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/03/17 23:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/03/17 23:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/03/17 23:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/03/17 23:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		02/03/17 23:09	1
4-Bromofluorobenzene (Surr)	99		73 - 120		02/03/17 23:09	1
Dibromofluoromethane (Surr)	104		75 - 123		02/03/17 23:09	1
Toluene-d8 (Surr)	96		80 - 120		02/03/17 23:09	1

Client Sample ID: TRIP BLANK 13017

Lab Sample ID: 480-112860-3

Date Collected: 01/30/17 00:00

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 23:32	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 23:32	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/03/17 23:32	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/03/17 23:32	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/03/17 23:32	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/03/17 23:32	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/03/17 23:32	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/03/17 23:32	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/03/17 23:32	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/03/17 23:32	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/03/17 23:32	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/03/17 23:32	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 23:32	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/03/17 23:32	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/03/17 23:32	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/03/17 23:32	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/03/17 23:32	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/03/17 23:32	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/03/17 23:32	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/03/17 23:32	1
Acetone	10	U	10	3.0	ug/L			02/03/17 23:32	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-112860-1

Client Sample ID: TRIP BLANK 13017

Lab Sample ID: 480-112860-3

Date Collected: 01/30/17 00:00

Matrix: Water

Date Received: 01/31/17 09:30

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			02/03/17 23:32	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/03/17 23:32	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/03/17 23:32	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/03/17 23:32	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/03/17 23:32	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/03/17 23:32	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/03/17 23:32	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/03/17 23:32	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/03/17 23:32	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/03/17 23:32	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/03/17 23:32	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/03/17 23:32	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/03/17 23:32	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/03/17 23:32	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/03/17 23:32	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/03/17 23:32	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/03/17 23:32	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/03/17 23:32	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/03/17 23:32	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/03/17 23:32	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/03/17 23:32	1
Styrene	1.0	U	1.0	0.73	ug/L			02/03/17 23:32	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/03/17 23:32	1
Toluene	1.0	U	1.0	0.51	ug/L			02/03/17 23:32	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/03/17 23:32	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/03/17 23:32	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/03/17 23:32	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/03/17 23:32	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/03/17 23:32	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/03/17 23:32	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		02/03/17 23:32	1
4-Bromofluorobenzene (Surr)	100		73 - 120		02/03/17 23:32	1
Dibromofluoromethane (Surr)	98		75 - 123		02/03/17 23:32	1
Toluene-d8 (Surr)	97		80 - 120		02/03/17 23:32	1

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-112860-1

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)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-112860-1	WELL 1-2A	102	101	106	98
480-112860-2	WELL 1-3	101	99	104	96
480-112860-3	TRIP BLANK 13017	100	100	98	97
LCS 480-342639/5	Lab Control Sample	95	101	97	98
LCSD 480-342639/6	Lab Control Sample Dup	98	101	101	98
MB 480-342639/8	Method Blank	99	102	102	99

Surrogate Legend

12DCE = 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: 480-112860-1

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

Lab Sample ID: MB 480-342639/8

Matrix: Water

Analysis Batch: 342639

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			02/03/17 22:07	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 22:07	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/03/17 22:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/03/17 22:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/03/17 22:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/03/17 22:07	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/03/17 22:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/03/17 22:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/03/17 22:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/03/17 22:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/03/17 22:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/03/17 22:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/03/17 22:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/03/17 22:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/03/17 22:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/03/17 22:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/03/17 22:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/03/17 22:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/03/17 22:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/03/17 22:07	1
Acetone	10	U	10	3.0	ug/L			02/03/17 22:07	1
Benzene	1.0	U	1.0	0.41	ug/L			02/03/17 22:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/03/17 22:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/03/17 22:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/03/17 22:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/03/17 22:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/03/17 22:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/03/17 22:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/03/17 22:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/03/17 22:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/03/17 22:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/03/17 22:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/03/17 22:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/03/17 22:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/03/17 22:07	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/03/17 22:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/03/17 22:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/03/17 22:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/03/17 22:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/03/17 22:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/03/17 22:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/03/17 22:07	1
Styrene	1.0	U	1.0	0.73	ug/L			02/03/17 22:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/03/17 22:07	1
Toluene	1.0	U	1.0	0.51	ug/L			02/03/17 22:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/03/17 22:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/03/17 22:07	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/03/17 22:07	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-112860-1

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

Lab Sample ID: MB 480-342639/8

Matrix: Water

Analysis Batch: 342639

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			02/03/17 22:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/03/17 22:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/03/17 22:07	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		02/03/17 22:07	1
4-Bromofluorobenzene (Surr)	102		73 - 120		02/03/17 22:07	1
Dibromofluoromethane (Surr)	102		75 - 123		02/03/17 22:07	1
Toluene-d8 (Surr)	99		80 - 120		02/03/17 22:07	1

Lab Sample ID: LCS 480-342639/5

Matrix: Water

Analysis Batch: 342639

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	21.9		ug/L		88	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	21.1		ug/L		84	61 - 148
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	76 - 122
1,1-Dichloroethane	25.0	21.8		ug/L		87	77 - 120
1,1-Dichloroethene	25.0	19.9		ug/L		80	66 - 127
1,2,3-Trimethylbenzene	25.0	21.9		ug/L		88	78 - 120
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	79 - 122
1,2,4-Trimethylbenzene	25.0	22.3		ug/L		89	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.9		ug/L		108	56 - 134
1,2-Dibromoethane	25.0	23.4		ug/L		93	77 - 120
1,2-Dichlorobenzene	25.0	21.3		ug/L		85	80 - 124
1,2-Dichloroethane	25.0	22.1		ug/L		88	75 - 120
1,2-Dichloropropane	25.0	21.3		ug/L		85	76 - 120
1,3,5-Trimethylbenzene	25.0	22.1		ug/L		88	77 - 121
1,3-Dichlorobenzene	25.0	21.9		ug/L		88	77 - 120
1,4-Dichlorobenzene	25.0	22.2		ug/L		89	80 - 120
2-Butanone (MEK)	125	105		ug/L		84	57 - 140
2-Hexanone	125	111		ug/L		89	65 - 127
4-Methyl-2-pentanone (MIBK)	125	111		ug/L		89	71 - 125
Acetone	125	112		ug/L		90	56 - 142
Benzene	25.0	20.9		ug/L		84	71 - 124
Bromodichloromethane	25.0	24.0		ug/L		96	80 - 122
Bromoform	25.0	28.2		ug/L		113	61 - 132
Bromomethane	25.0	20.3		ug/L		81	55 - 144
Carbon disulfide	25.0	20.1		ug/L		81	59 - 134
Carbon tetrachloride	25.0	24.2		ug/L		97	72 - 134
Chlorobenzene	25.0	22.2		ug/L		89	80 - 120
Chloroethane	25.0	20.3		ug/L		81	69 - 136
Chloroform	25.0	21.2		ug/L		85	73 - 127
Chloromethane	25.0	19.8		ug/L		79	68 - 124
cis-1,2-Dichloroethene	25.0	21.5		ug/L		86	74 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-112860-1

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

Lab Sample ID: LCS 480-342639/5

Matrix: Water

Analysis Batch: 342639

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	23.4		ug/L		94	74 - 124
Cyclohexane	25.0	20.2		ug/L		81	59 - 135
Dibromochloromethane	25.0	25.8		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	18.5		ug/L		74	59 - 135
Ethylbenzene	25.0	21.8		ug/L		87	77 - 123
Isopropylbenzene	25.0	21.3		ug/L		85	77 - 122
Methyl acetate	125	105		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	21.2		ug/L		85	77 - 120
Methylcyclohexane	25.0	21.2		ug/L		85	68 - 134
Methylene Chloride	25.0	23.1		ug/L		92	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	22.7		ug/L		91	74 - 122
Toluene	25.0	22.0		ug/L		88	80 - 122
trans-1,2-Dichloroethene	25.0	20.7		ug/L		83	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	22.0		ug/L		88	74 - 123
Trichlorofluoromethane	25.0	20.7		ug/L		83	62 - 150
Vinyl chloride	25.0	19.0		ug/L		76	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	95		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	98		80 - 120

Lab Sample ID: LCSD 480-342639/6

Matrix: Water

Analysis Batch: 342639

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	73 - 126	10	15
1,1,2,2-Tetrachloroethane	25.0	23.6		ug/L		95	76 - 120	8	15
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	22.9		ug/L		91	61 - 148	8	20
1,1,2-Trichloroethane	25.0	23.3		ug/L		93	76 - 122	0	15
1,1-Dichloroethane	25.0	23.3		ug/L		93	77 - 120	7	20
1,1-Dichloroethene	25.0	21.8		ug/L		87	66 - 127	9	16
1,2,3-Trimethylbenzene	25.0	23.3		ug/L		93	78 - 120	6	20
1,2,4-Trichlorobenzene	25.0	24.2		ug/L		97	79 - 122	6	20
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	76 - 121	8	20
1,2-Dibromo-3-Chloropropane	25.0	28.3		ug/L		113	56 - 134	5	15
1,2-Dibromoethane	25.0	24.1		ug/L		96	77 - 120	3	15
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124	6	20
1,2-Dichloroethane	25.0	22.7		ug/L		91	75 - 120	3	20
1,2-Dichloropropane	25.0	22.5		ug/L		90	76 - 120	6	20
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	77 - 121	8	20
1,3-Dichlorobenzene	25.0	23.0		ug/L		92	77 - 120	5	20
1,4-Dichlorobenzene	25.0	23.5		ug/L		94	80 - 120	6	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-112860-1

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

Lab Sample ID: LCSD 480-342639/6

Matrix: Water

Analysis Batch: 342639

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2-Butanone (MEK)	125	112		ug/L		90	57 - 140	7	20
2-Hexanone	125	113		ug/L		91	65 - 127	2	15
4-Methyl-2-pentanone (MIBK)	125	112		ug/L		90	71 - 125	1	35
Acetone	125	119		ug/L		95	56 - 142	5	15
Benzene	25.0	22.7		ug/L		91	71 - 124	8	13
Bromodichloromethane	25.0	26.6		ug/L		107	80 - 122	10	15
Bromoform	25.0	29.6		ug/L		119	61 - 132	5	15
Bromomethane	25.0	22.1		ug/L		89	55 - 144	9	15
Carbon disulfide	25.0	21.7		ug/L		87	59 - 134	7	15
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134	9	15
Chlorobenzene	25.0	22.7		ug/L		91	80 - 120	2	25
Chloroethane	25.0	21.7		ug/L		87	69 - 136	7	15
Chloroform	25.0	22.4		ug/L		89	73 - 127	5	20
Chloromethane	25.0	20.9		ug/L		84	68 - 124	5	15
cis-1,2-Dichloroethene	25.0	22.7		ug/L		91	74 - 124	6	15
cis-1,3-Dichloropropene	25.0	25.4		ug/L		101	74 - 124	8	15
Cyclohexane	25.0	22.1		ug/L		89	59 - 135	9	20
Dibromochloromethane	25.0	27.7		ug/L		111	75 - 125	7	15
Dichlorodifluoromethane	25.0	21.0		ug/L		84	59 - 135	13	20
Ethylbenzene	25.0	22.7		ug/L		91	77 - 123	4	15
Isopropylbenzene	25.0	23.3		ug/L		93	77 - 122	9	20
Methyl acetate	125	114		ug/L		91	74 - 133	8	20
Methyl tert-butyl ether	25.0	22.3		ug/L		89	77 - 120	5	37
Methylcyclohexane	25.0	23.0		ug/L		92	68 - 134	8	20
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124	5	15
Styrene	25.0	23.9		ug/L		96	80 - 120	2	20
Tetrachloroethene	25.0	23.8		ug/L		95	74 - 122	5	20
Toluene	25.0	22.7		ug/L		91	80 - 122	3	15
trans-1,2-Dichloroethene	25.0	22.6		ug/L		90	73 - 127	8	20
trans-1,3-Dichloropropene	25.0	25.0		ug/L		100	80 - 120	2	15
Trichloroethene	25.0	23.7		ug/L		95	74 - 123	7	16
Trichlorofluoromethane	25.0	22.3		ug/L		89	62 - 150	8	20
Vinyl chloride	25.0	21.0		ug/L		84	65 - 133	10	15

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

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-112860-1

GC/MS VOA

Analysis Batch: 342639

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-112860-1	WELL 1-2A	Total/NA	Water	8260C	
480-112860-2	WELL 1-3	Total/NA	Water	8260C	
480-112860-3	TRIP BLANK 13017	Total/NA	Water	8260C	
MB 480-342639/8	Method Blank	Total/NA	Water	8260C	
LCS 480-342639/5	Lab Control Sample	Total/NA	Water	8260C	
LCSD 480-342639/6	Lab Control Sample Dup	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-112860-1

Client Sample ID: WELL 1-2A

Date Collected: 01/30/17 09:25

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112860-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	342639	02/03/17 22:45	GTG	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 01/30/17 09:30

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112860-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	342639	02/03/17 23:09	GTG	TAL BUF

Client Sample ID: TRIP BLANK 13017

Date Collected: 01/30/17 00:00

Date Received: 01/31/17 09:30

Lab Sample ID: 480-112860-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	342639	02/03/17 23:32	GTG	TAL BUF

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 480-112860-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

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

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

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-112860-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: 480-112860-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-112860-1	WELL 1-2A	Water	01/30/17 09:25	01/31/17 09:30
480-112860-2	WELL 1-3	Water	01/30/17 09:30	01/31/17 09:30
480-112860-3	TRIP BLANK 13017	Water	01/30/17 00:00	01/31/17 09:30

Chain of Custody Record



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: NYSDC-Standard VESTAL Site:		Sampler: L. Whalen Lab Pkt: Stone, Judy L Phone: 315-436-5041 E-Mail: judy.stone@testamericainc.com Carrier Tracking No(s): 480-36493-18034 COC No: 480-112860 COC Page: Page 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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)	
Sample Identification Well 1-2A Well 1-3 Trip Blank 13017		Field Filled Sample (Yes or No) ☒ Perform MS/MSD (Yes or No) ☒ B280C - (MOD) TCL list OLM04.2 ☒	
Sample Date 1/30/17 1/30/17 1/30/17		Sample Time 0925 0930 -	
Sample Type G-Grab G G -		Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) Water Water Water	
Preservation Code A A A		Total Number of Containers X X X	
Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:		Special Instructions/Note: Special Instructions/Note: Special Instructions/Note:	
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 ☐ Archive For ☐ Months			
Special Instructions/QC Requirements:			
Empty Kit Relinquished by: Linda Whalen Relinquished by: Linda Whalen Relinquished by:		Date: 1/30/17 Date/Time: 1230 Date/Time: Date/Time:	
Custody Seals Intact: ☒ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 26th	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-112860-1

Login Number: 112860

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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.	True	
Chlorine Residual checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-113984-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

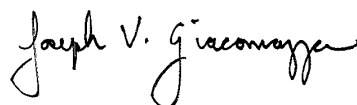
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

3/6/2017 1:02:26 PM

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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	10
QC Sample Results	11
QC Association Summary	17
Lab Chronicle	18
Certification Summary	19
Method Summary	20
Sample Summary	21
Chain of Custody	22
Receipt Checklists	23



Definitions/Glossary

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

TestAmerica Job ID: 480-113984-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	LCS or LCSD is outside acceptance 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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 480-113984-1

Job ID: 480-113984-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-113984-1

Receipt

The samples were received on 2/28/2017 9:40 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-345508 recovered above the upper control limit for Chloromethane and Vinyl chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following sample is impacted: Well 1-3 (480-113984-2) and Trip Blank (480-113984-3).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-345508 recovered outside control limits for the following analytes: Chloromethane and Vinyl chloride. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following sample is impacted: Well 1-3 (480-113984-2) and Trip Blank (480-113984-3)

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with batch 480-345508. The following samples are impacted: Well 1-3 (480-113984-2) and Trip Blank (480-113984-3).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-345819 recovered above the upper control limit for Dichlorodifluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data has been reported. The following sample is impacted: Well 1-2A (480-113984-1).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-345819 recovered outside control limits for the following analyte: Dichlorodifluoromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data has been reported. Well 1-2A (480-113984-1).

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: 480-113984-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-113984-1

☐ No Detections.

Client Sample ID: Well 1-3

Lab Sample ID: 480-113984-2

☐ No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 480-113984-3

☐ No Detections.

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: 480-113984-1

Client Sample ID: Well 1-2A

Date Collected: 02/27/17 08:45

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-1

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			03/01/17 23:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/01/17 23:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/01/17 23:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/01/17 23:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/01/17 23:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/01/17 23:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/01/17 23:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/01/17 23:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/01/17 23:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/01/17 23:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/01/17 23:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/01/17 23:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/01/17 23:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/01/17 23:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/01/17 23:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/01/17 23:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/01/17 23:55	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/01/17 23:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/01/17 23:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/01/17 23:55	1
Acetone	10	U	10	3.0	ug/L			03/01/17 23:55	1
Benzene	1.0	U	1.0	0.41	ug/L			03/01/17 23:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/01/17 23:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/01/17 23:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/01/17 23:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/01/17 23:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/01/17 23:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/01/17 23:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/01/17 23:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/01/17 23:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/01/17 23:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/01/17 23:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/01/17 23:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/01/17 23:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/01/17 23:55	1
Dichlorodifluoromethane	1.0	U *	1.0	0.68	ug/L			03/01/17 23:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/01/17 23:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/01/17 23:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			03/01/17 23:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/01/17 23:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/01/17 23:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/01/17 23:55	1
Styrene	1.0	U	1.0	0.73	ug/L			03/01/17 23:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/01/17 23:55	1
Toluene	1.0	U	1.0	0.51	ug/L			03/01/17 23:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/01/17 23:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/01/17 23:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/01/17 23:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/01/17 23:55	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-113984-1

Client Sample ID: Well 1-2A

Date Collected: 02/27/17 08:45

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-1

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			03/01/17 23:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/01/17 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		77 - 120					03/01/17 23:55	1
4-Bromofluorobenzene (Surr)	107		73 - 120					03/01/17 23:55	1
Dibromofluoromethane (Surr)	97		75 - 123					03/01/17 23:55	1
Toluene-d8 (Surr)	90		80 - 120					03/01/17 23:55	1

Client Sample ID: Well 1-3

Date Collected: 02/27/17 08:40

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-2

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			02/28/17 19:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 19:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/28/17 19:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/28/17 19:43	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/28/17 19:43	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/28/17 19:43	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/28/17 19:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/28/17 19:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/28/17 19:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/28/17 19:43	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/28/17 19:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/28/17 19:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 19:43	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/28/17 19:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/28/17 19:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/28/17 19:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/28/17 19:43	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			02/28/17 19:43	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/28/17 19:43	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/28/17 19:43	1
Acetone	10	U	10	3.0	ug/L			02/28/17 19:43	1
Benzene	1.0	U	1.0	0.41	ug/L			02/28/17 19:43	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/28/17 19:43	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/28/17 19:43	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/28/17 19:43	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/28/17 19:43	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/28/17 19:43	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/28/17 19:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/28/17 19:43	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/28/17 19:43	1
Chloromethane	1.0	U *	1.0	0.35	ug/L			02/28/17 19:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/28/17 19:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/28/17 19:43	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/28/17 19:43	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/28/17 19:43	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-113984-1

Client Sample ID: Well 1-3

Date Collected: 02/27/17 08:40

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-2

Matrix: Water

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			02/28/17 19:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/28/17 19:43	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/28/17 19:43	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/28/17 19:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/28/17 19:43	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/28/17 19:43	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/28/17 19:43	1
Styrene	1.0	U	1.0	0.73	ug/L			02/28/17 19:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/28/17 19:43	1
Toluene	1.0	U	1.0	0.51	ug/L			02/28/17 19:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/28/17 19:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/28/17 19:43	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/28/17 19:43	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/28/17 19:43	1
Vinyl chloride	1.0	U *	1.0	0.90	ug/L			02/28/17 19:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/28/17 19:43	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120		02/28/17 19:43	1
4-Bromofluorobenzene (Surr)	119		73 - 120		02/28/17 19:43	1
Dibromofluoromethane (Surr)	111		75 - 123		02/28/17 19:43	1
Toluene-d8 (Surr)	110		80 - 120		02/28/17 19:43	1

Client Sample ID: Trip Blank

Date Collected: 02/27/17 00:00

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-3

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			02/28/17 20:10	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 20:10	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/28/17 20:10	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/28/17 20:10	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/28/17 20:10	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/28/17 20:10	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/28/17 20:10	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/28/17 20:10	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/28/17 20:10	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/28/17 20:10	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/28/17 20:10	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/28/17 20:10	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 20:10	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/28/17 20:10	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/28/17 20:10	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/28/17 20:10	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/28/17 20:10	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			02/28/17 20:10	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/28/17 20:10	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/28/17 20:10	1
Acetone	10	U	10	3.0	ug/L			02/28/17 20:10	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-113984-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-113984-3

Date Collected: 02/27/17 00:00

Matrix: Water

Date Received: 02/28/17 09:40

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			02/28/17 20:10	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/28/17 20:10	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/28/17 20:10	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/28/17 20:10	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/28/17 20:10	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/28/17 20:10	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/28/17 20:10	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/28/17 20:10	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/28/17 20:10	1
Chloromethane	1.0	U *	1.0	0.35	ug/L			02/28/17 20:10	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/28/17 20:10	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/28/17 20:10	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/28/17 20:10	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/28/17 20:10	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/28/17 20:10	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/28/17 20:10	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/28/17 20:10	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/28/17 20:10	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/28/17 20:10	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/28/17 20:10	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/28/17 20:10	1
Styrene	1.0	U	1.0	0.73	ug/L			02/28/17 20:10	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/28/17 20:10	1
Toluene	1.0	U	1.0	0.51	ug/L			02/28/17 20:10	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/28/17 20:10	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/28/17 20:10	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/28/17 20:10	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			02/28/17 20:10	1
Vinyl chloride	1.0	U *	1.0	0.90	ug/L			02/28/17 20:10	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/28/17 20:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	106		77 - 120		02/28/17 20:10	1
4-Bromofluorobenzene (Surr)	119		73 - 120		02/28/17 20:10	1
Dibromofluoromethane (Surr)	110		75 - 123		02/28/17 20:10	1
Toluene-d8 (Surr)	112		80 - 120		02/28/17 20:10	1

TestAmerica Buffalo

Surrogate Summary

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

TestAmerica Job ID: 480-113984-1

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)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-113984-1	Well 1-2A	88	107	97	90
480-113984-2	Well 1-3	105	119	111	110
480-113984-3	Trip Blank	106	119	110	112
LCS 480-345508/27	Lab Control Sample	112	119	109	111
LCS 480-345819/5	Lab Control Sample	93	106	99	89
MB 480-345508/7	Method Blank	107	119	111	112
MB 480-345819/7	Method Blank	91	107	98	91

Surrogate Legend

12DCE = 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: 480-113984-1

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

Lab Sample ID: MB 480-345508/7

Matrix: Water

Analysis Batch: 345508

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			02/28/17 12:22	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 12:22	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			02/28/17 12:22	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			02/28/17 12:22	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			02/28/17 12:22	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			02/28/17 12:22	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			02/28/17 12:22	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			02/28/17 12:22	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			02/28/17 12:22	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			02/28/17 12:22	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			02/28/17 12:22	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			02/28/17 12:22	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			02/28/17 12:22	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			02/28/17 12:22	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			02/28/17 12:22	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			02/28/17 12:22	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			02/28/17 12:22	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			02/28/17 12:22	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			02/28/17 12:22	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			02/28/17 12:22	1
Acetone	10	U	10	3.0	ug/L			02/28/17 12:22	1
Benzene	1.0	U	1.0	0.41	ug/L			02/28/17 12:22	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			02/28/17 12:22	1
Bromoform	1.0	U	1.0	0.26	ug/L			02/28/17 12:22	1
Bromomethane	1.0	U	1.0	0.69	ug/L			02/28/17 12:22	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			02/28/17 12:22	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			02/28/17 12:22	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			02/28/17 12:22	1
Chloroethane	1.0	U	1.0	0.32	ug/L			02/28/17 12:22	1
Chloroform	1.0	U	1.0	0.34	ug/L			02/28/17 12:22	1
Chloromethane	1.0	U	1.0	0.35	ug/L			02/28/17 12:22	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			02/28/17 12:22	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			02/28/17 12:22	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			02/28/17 12:22	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			02/28/17 12:22	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			02/28/17 12:22	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			02/28/17 12:22	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			02/28/17 12:22	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			02/28/17 12:22	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			02/28/17 12:22	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			02/28/17 12:22	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			02/28/17 12:22	1
Styrene	1.0	U	1.0	0.73	ug/L			02/28/17 12:22	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			02/28/17 12:22	1
Toluene	1.0	U	1.0	0.51	ug/L			02/28/17 12:22	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			02/28/17 12:22	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			02/28/17 12:22	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			02/28/17 12:22	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-113984-1

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

Lab Sample ID: MB 480-345508/7

Matrix: Water

Analysis Batch: 345508

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			02/28/17 12:22	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			02/28/17 12:22	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			02/28/17 12:22	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		77 - 120		02/28/17 12:22	1
4-Bromofluorobenzene (Surr)	119		73 - 120		02/28/17 12:22	1
Dibromofluoromethane (Surr)	111		75 - 123		02/28/17 12:22	1
Toluene-d8 (Surr)	112		80 - 120		02/28/17 12:22	1

Lab Sample ID: LCS 480-345508/27

Matrix: Water

Analysis Batch: 345508

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	26.2		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	25.0	23.0		ug/L		92	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	26.4		ug/L		106	61 - 148
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	24.0		ug/L		96	77 - 120
1,1-Dichloroethene	25.0	25.5		ug/L		102	66 - 127
1,2,3-Trimethylbenzene	25.0	26.4		ug/L		105	78 - 120
1,2,4-Trichlorobenzene	25.0	26.0		ug/L		104	79 - 122
1,2,4-Trimethylbenzene	25.0	25.0		ug/L		100	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	21.4		ug/L		86	56 - 134
1,2-Dibromoethane	25.0	25.9		ug/L		104	77 - 120
1,2-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 124
1,2-Dichloroethane	25.0	23.5		ug/L		94	75 - 120
1,2-Dichloropropane	25.0	24.5		ug/L		98	76 - 120
1,3,5-Trimethylbenzene	25.0	24.7		ug/L		99	77 - 121
1,3-Dichlorobenzene	25.0	25.3		ug/L		101	77 - 120
1,4-Dichlorobenzene	25.0	25.2		ug/L		101	80 - 120
2-Butanone (MEK)	125	185	*	ug/L		148	57 - 140
2-Hexanone	125	103		ug/L		82	65 - 127
4-Methyl-2-pentanone (MIBK)	125	103		ug/L		82	71 - 125
Acetone	125	113		ug/L		90	56 - 142
Benzene	25.0	24.6		ug/L		98	71 - 124
Bromodichloromethane	25.0	27.4		ug/L		110	80 - 122
Bromoform	25.0	33.1		ug/L		132	61 - 132
Bromomethane	25.0	25.7		ug/L		103	55 - 144
Carbon disulfide	25.0	25.3		ug/L		101	59 - 134
Carbon tetrachloride	25.0	27.7		ug/L		111	72 - 134
Chlorobenzene	25.0	25.8		ug/L		103	80 - 120
Chloroethane	25.0	23.4		ug/L		94	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	37.4	*	ug/L		150	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-113984-1

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

Lab Sample ID: LCS 480-345508/27

Matrix: Water

Analysis Batch: 345508

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	27.8		ug/L		111	74 - 124
Cyclohexane	25.0	23.9		ug/L		96	59 - 135
Dibromochloromethane	25.0	29.0		ug/L		116	75 - 125
Dichlorodifluoromethane	25.0	25.8		ug/L		103	59 - 135
Ethylbenzene	25.0	24.9		ug/L		99	77 - 123
Isopropylbenzene	25.0	24.1		ug/L		96	77 - 122
Methyl acetate	125	101		ug/L		81	74 - 133
Methyl tert-butyl ether	25.0	27.1		ug/L		109	77 - 120
Methylcyclohexane	25.0	25.4		ug/L		102	68 - 134
Methylene Chloride	25.0	26.9		ug/L		108	75 - 124
Styrene	25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	25.0	27.8		ug/L		111	74 - 122
Toluene	25.0	25.7		ug/L		103	80 - 122
trans-1,2-Dichloroethene	25.0	25.5		ug/L		102	73 - 127
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Trichloroethene	25.0	26.2		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	25.2		ug/L		101	62 - 150
Vinyl chloride	25.0	34.4	*	ug/L		138	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	112		77 - 120
4-Bromofluorobenzene (Surr)	119		73 - 120
Dibromofluoromethane (Surr)	109		75 - 123
Toluene-d8 (Surr)	111		80 - 120

Lab Sample ID: MB 480-345819/7

Matrix: Water

Analysis Batch: 345819

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			03/01/17 21:37	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/01/17 21:37	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/01/17 21:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/01/17 21:37	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/01/17 21:37	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/01/17 21:37	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/01/17 21:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/01/17 21:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/01/17 21:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/01/17 21:37	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/01/17 21:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/01/17 21:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/01/17 21:37	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/01/17 21:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/01/17 21:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/01/17 21:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/01/17 21:37	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/01/17 21:37	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-113984-1

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

Lab Sample ID: MB 480-345819/7

Matrix: Water

Analysis Batch: 345819

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			03/01/17 21:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/01/17 21:37	1
Acetone	10	U	10	3.0	ug/L			03/01/17 21:37	1
Benzene	1.0	U	1.0	0.41	ug/L			03/01/17 21:37	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/01/17 21:37	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/01/17 21:37	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/01/17 21:37	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/01/17 21:37	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/01/17 21:37	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/01/17 21:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/01/17 21:37	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/01/17 21:37	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/01/17 21:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/01/17 21:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/01/17 21:37	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/01/17 21:37	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/01/17 21:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/01/17 21:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/01/17 21:37	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/01/17 21:37	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			03/01/17 21:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/01/17 21:37	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/01/17 21:37	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/01/17 21:37	1
Styrene	1.0	U	1.0	0.73	ug/L			03/01/17 21:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/01/17 21:37	1
Toluene	1.0	U	1.0	0.51	ug/L			03/01/17 21:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/01/17 21:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/01/17 21:37	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/01/17 21:37	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/01/17 21:37	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/01/17 21:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/01/17 21:37	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		77 - 120		03/01/17 21:37	1
4-Bromofluorobenzene (Surr)	107		73 - 120		03/01/17 21:37	1
Dibromofluoromethane (Surr)	98		75 - 123		03/01/17 21:37	1
Toluene-d8 (Surr)	91		80 - 120		03/01/17 21:37	1

Lab Sample ID: LCS 480-345819/5

Matrix: Water

Analysis Batch: 345819

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	26.1		ug/L		104	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	76 - 120

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-113984-1

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

Lab Sample ID: LCS 480-345819/5

Matrix: Water

Analysis Batch: 345819

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	23.1		ug/L		92	61 - 148
1,1,2-Trichloroethane	25.0	22.3		ug/L		89	76 - 122
1,1-Dichloroethane	25.0	23.9		ug/L		95	77 - 120
1,1-Dichloroethene	25.0	23.9		ug/L		96	66 - 127
1,2,3-Trimethylbenzene	25.0	23.8		ug/L		95	78 - 120
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	79 - 122
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.2		ug/L		105	56 - 134
1,2-Dibromoethane	25.0	23.7		ug/L		95	77 - 120
1,2-Dichlorobenzene	25.0	23.8		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	23.8		ug/L		95	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	25.0	24.1		ug/L		96	77 - 121
1,3-Dichlorobenzene	25.0	24.1		ug/L		96	77 - 120
1,4-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 120
2-Butanone (MEK)	125	125		ug/L		100	57 - 140
2-Hexanone	125	112		ug/L		90	65 - 127
4-Methyl-2-pentanone (MIBK)	125	101		ug/L		81	71 - 125
Acetone	125	147		ug/L		118	56 - 142
Benzene	25.0	23.8		ug/L		95	71 - 124
Bromodichloromethane	25.0	27.3		ug/L		109	80 - 122
Bromoform	25.0	27.9		ug/L		112	61 - 132
Bromomethane	25.0	27.7		ug/L		111	55 - 144
Carbon disulfide	25.0	22.7		ug/L		91	59 - 134
Carbon tetrachloride	25.0	28.3		ug/L		113	72 - 134
Chlorobenzene	25.0	23.3		ug/L		93	80 - 120
Chloroethane	25.0	26.4		ug/L		106	69 - 136
Chloroform	25.0	24.3		ug/L		97	73 - 127
Chloromethane	25.0	26.5		ug/L		106	68 - 124
cis-1,2-Dichloroethene	25.0	24.8		ug/L		99	74 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	74 - 124
Cyclohexane	25.0	22.3		ug/L		89	59 - 135
Dibromochloromethane	25.0	25.6		ug/L		103	75 - 125
Dichlorodifluoromethane	25.0	39.3	*	ug/L		157	59 - 135
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Isopropylbenzene	25.0	23.9		ug/L		95	77 - 122
Methyl acetate	125	104		ug/L		84	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		96	77 - 120
Methylcyclohexane	25.0	24.2		ug/L		97	68 - 134
Methylene Chloride	25.0	25.4		ug/L		102	75 - 124
Styrene	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	25.0	24.7		ug/L		99	74 - 122
Toluene	25.0	22.4		ug/L		90	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	80 - 120
Trichloroethene	25.0	25.3		ug/L		101	74 - 123
Trichlorofluoromethane	25.0	29.3		ug/L		117	62 - 150

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-113984-1

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

Lab Sample ID: LCS 480-345819/5

Matrix: Water

Analysis Batch: 345819

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	28.3		ug/L		113	65 - 133
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
1,2-Dichloroethane-d4 (Surr)	93		77 - 120				
4-Bromofluorobenzene (Surr)	106		73 - 120				
Dibromofluoromethane (Surr)	99		75 - 123				
Toluene-d8 (Surr)	89		80 - 120				

QC Association Summary

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

TestAmerica Job ID: 480-113984-1

GC/MS VOA

Analysis Batch: 345508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-113984-2	Well 1-3	Total/NA	Water	8260C	
480-113984-3	Trip Blank	Total/NA	Water	8260C	
MB 480-345508/7	Method Blank	Total/NA	Water	8260C	
LCS 480-345508/27	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 345819

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-113984-1	Well 1-2A	Total/NA	Water	8260C	
MB 480-345819/7	Method Blank	Total/NA	Water	8260C	
LCS 480-345819/5	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-113984-1

Client Sample ID: Well 1-2A

Date Collected: 02/27/17 08:45

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	345819	03/01/17 23:55	GTG	TAL BUF

Client Sample ID: Well 1-3

Date Collected: 02/27/17 08:40

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	345508	02/28/17 19:43	SMY	TAL BUF

Client Sample ID: Trip Blank

Date Collected: 02/27/17 00:00

Date Received: 02/28/17 09:40

Lab Sample ID: 480-113984-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	345508	02/28/17 20:10	SMY	TAL BUF

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 480-113984-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

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

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

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-113984-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: 480-113984-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-113984-1	Well 1-2A	Water	02/27/17 08:45	02/28/17 09:40
480-113984-2	Well 1-3	Water	02/27/17 08:40	02/28/17 09:40
480-113984-3	Trip Blank	Water	02/27/17 00:00	02/28/17 09:40

Chain of Custody Record



Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State: NY Zip: 12065 Phone: 518-250-7300 (Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site:		Sample: L. Whalen Phone: 315-436-5041 Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com		Carrier Tracking No(s): COC No: 480-86494-18034 Page: 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: 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)			
Sample Identification Well 1-2A Well 1-3 Trip Blank 022717		Sample Date 2-27-17 2-27-17 2-27-17	Sample Time 0845 0840 -	Sample Type (C=comp, G=grab) G G -	Matrix (W=water, S=solid, O=oil, B=both) Water Water Water
Field Filtered Sample (Yes or No) 8260C - (MOD) TCL list OLM04.2		Total Number of Containers			
Special Instructions/Note: 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:		Method of Shipment:			
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: L. Whalen Relinquished by:		Date/Time: 2-27-17 1430 Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: #4 310			

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-113984-1

Login Number: 113984

List Source: TestAmerica Buffalo

List Number: 1

Creator: Wallace, Cameron

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.	N/A	

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-115126-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

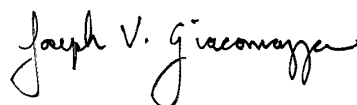
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

3/31/2017 11:23:11 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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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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	9
QC Sample Results	10
QC Association Summary	13
Lab Chronicle	14
Certification Summary	15
Method Summary	16
Sample Summary	17
Chain of Custody	18
Receipt Checklists	19



Definitions/Glossary

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

TestAmerica Job ID: 480-115126-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

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, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision level concentration
MDA	Minimum detectable activity
EDL	Estimated Detection Limit
MDC	Minimum detectable concentration
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative error ratio
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

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

TestAmerica Job ID: 480-115126-1

Job ID: 480-115126-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-115126-1

Receipt

The samples were received on 3/27/2017 10:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.9° C.

Receipt Exceptions

The following sample was listed on the Chain of Custody (COC); however, no sample was received: Received 3 empty vials. TRIP BLANK 032317 (480-115126-3). Method has been canceled due to volume not being received.

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: 480-115126-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-115126-1

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-115126-2

No Detections.

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: 480-115126-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-115126-1

Date Collected: 03/23/17 10:05

Matrix: Water

Date Received: 03/27/17 10:00

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			03/29/17 23:39	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/29/17 23:39	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/29/17 23:39	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/29/17 23:39	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/29/17 23:39	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/29/17 23:39	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/29/17 23:39	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/29/17 23:39	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/29/17 23:39	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/29/17 23:39	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/29/17 23:39	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/29/17 23:39	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/29/17 23:39	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/29/17 23:39	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/29/17 23:39	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/29/17 23:39	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/29/17 23:39	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/29/17 23:39	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/29/17 23:39	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/29/17 23:39	1
Acetone	10	U	10	3.0	ug/L			03/29/17 23:39	1
Benzene	1.0	U	1.0	0.41	ug/L			03/29/17 23:39	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/29/17 23:39	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/29/17 23:39	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/29/17 23:39	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/29/17 23:39	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/29/17 23:39	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/29/17 23:39	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/29/17 23:39	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/29/17 23:39	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/29/17 23:39	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/29/17 23:39	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/29/17 23:39	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/29/17 23:39	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/29/17 23:39	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/29/17 23:39	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/29/17 23:39	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/29/17 23:39	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			03/29/17 23:39	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/29/17 23:39	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/29/17 23:39	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/29/17 23:39	1
Styrene	1.0	U	1.0	0.73	ug/L			03/29/17 23:39	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/29/17 23:39	1
Toluene	1.0	U	1.0	0.51	ug/L			03/29/17 23:39	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/29/17 23:39	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/29/17 23:39	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/29/17 23:39	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/29/17 23:39	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-115126-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-115126-1

Date Collected: 03/23/17 10:05

Matrix: Water

Date Received: 03/27/17 10:00

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			03/29/17 23:39	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/29/17 23:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	104		77 - 120					03/29/17 23:39	1
4-Bromofluorobenzene (Surr)	102		73 - 120					03/29/17 23:39	1
Dibromofluoromethane (Surr)	101		75 - 123					03/29/17 23:39	1
Toluene-d8 (Surr)	99		80 - 120					03/29/17 23:39	1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-115126-2

Date Collected: 03/23/17 10:10

Matrix: Water

Date Received: 03/27/17 10:00

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			03/30/17 00:07	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/30/17 00:07	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/30/17 00:07	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/30/17 00:07	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/30/17 00:07	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/30/17 00:07	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/30/17 00:07	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/30/17 00:07	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/30/17 00:07	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/30/17 00:07	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/30/17 00:07	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/30/17 00:07	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/30/17 00:07	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/30/17 00:07	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/30/17 00:07	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/30/17 00:07	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/30/17 00:07	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/30/17 00:07	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/30/17 00:07	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/30/17 00:07	1
Acetone	10	U	10	3.0	ug/L			03/30/17 00:07	1
Benzene	1.0	U	1.0	0.41	ug/L			03/30/17 00:07	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/30/17 00:07	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/30/17 00:07	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/30/17 00:07	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/30/17 00:07	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/30/17 00:07	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/30/17 00:07	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/30/17 00:07	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/30/17 00:07	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/30/17 00:07	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/30/17 00:07	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/30/17 00:07	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/30/17 00:07	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/30/17 00:07	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-115126-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-115126-2

Date Collected: 03/23/17 10:10

Matrix: Water

Date Received: 03/27/17 10:00

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			03/30/17 00:07	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/30/17 00:07	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/30/17 00:07	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			03/30/17 00:07	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/30/17 00:07	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/30/17 00:07	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/30/17 00:07	1
Styrene	1.0	U	1.0	0.73	ug/L			03/30/17 00:07	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/30/17 00:07	1
Toluene	1.0	U	1.0	0.51	ug/L			03/30/17 00:07	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/30/17 00:07	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/30/17 00:07	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/30/17 00:07	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			03/30/17 00:07	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/30/17 00:07	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/30/17 00:07	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120		03/30/17 00:07	1
4-Bromofluorobenzene (Surr)	98		73 - 120		03/30/17 00:07	1
Dibromofluoromethane (Surr)	103		75 - 123		03/30/17 00:07	1
Toluene-d8 (Surr)	99		80 - 120		03/30/17 00:07	1

Surrogate Summary

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

TestAmerica Job ID: 480-115126-1

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)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-115126-1	WELL 1-2A	104	102	101	99
480-115126-2	WELL 1-3	103	98	103	99
LCS 480-349371/27	Lab Control Sample	99	104	99	98
MB 480-349371/6	Method Blank	105	99	106	100

Surrogate Legend

12DCE = 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: 480-115126-1

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

Lab Sample ID: MB 480-349371/6

Matrix: Water

Analysis Batch: 349371

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			03/29/17 22:45	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			03/29/17 22:45	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			03/29/17 22:45	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			03/29/17 22:45	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			03/29/17 22:45	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			03/29/17 22:45	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			03/29/17 22:45	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			03/29/17 22:45	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			03/29/17 22:45	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			03/29/17 22:45	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			03/29/17 22:45	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			03/29/17 22:45	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			03/29/17 22:45	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			03/29/17 22:45	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			03/29/17 22:45	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			03/29/17 22:45	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			03/29/17 22:45	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			03/29/17 22:45	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			03/29/17 22:45	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			03/29/17 22:45	1
Acetone	10	U	10	3.0	ug/L			03/29/17 22:45	1
Benzene	1.0	U	1.0	0.41	ug/L			03/29/17 22:45	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			03/29/17 22:45	1
Bromoform	1.0	U	1.0	0.26	ug/L			03/29/17 22:45	1
Bromomethane	1.0	U	1.0	0.69	ug/L			03/29/17 22:45	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			03/29/17 22:45	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			03/29/17 22:45	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			03/29/17 22:45	1
Chloroethane	1.0	U	1.0	0.32	ug/L			03/29/17 22:45	1
Chloroform	1.0	U	1.0	0.34	ug/L			03/29/17 22:45	1
Chloromethane	1.0	U	1.0	0.35	ug/L			03/29/17 22:45	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			03/29/17 22:45	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			03/29/17 22:45	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			03/29/17 22:45	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			03/29/17 22:45	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			03/29/17 22:45	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			03/29/17 22:45	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			03/29/17 22:45	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			03/29/17 22:45	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			03/29/17 22:45	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			03/29/17 22:45	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			03/29/17 22:45	1
Styrene	1.0	U	1.0	0.73	ug/L			03/29/17 22:45	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			03/29/17 22:45	1
Toluene	1.0	U	1.0	0.51	ug/L			03/29/17 22:45	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			03/29/17 22:45	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			03/29/17 22:45	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			03/29/17 22:45	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-115126-1

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

Lab Sample ID: MB 480-349371/6

Matrix: Water

Analysis Batch: 349371

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			03/29/17 22:45	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			03/29/17 22:45	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			03/29/17 22:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	105		77 - 120					03/29/17 22:45	1
4-Bromofluorobenzene (Surr)	99		73 - 120					03/29/17 22:45	1
Dibromofluoromethane (Surr)	106		75 - 123					03/29/17 22:45	1
Toluene-d8 (Surr)	100		80 - 120					03/29/17 22:45	1

Lab Sample ID: LCS 480-349371/27

Matrix: Water

Analysis Batch: 349371

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	21.6		ug/L		86	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.2		ug/L		105	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	20.1		ug/L		80	61 - 148
1,1,2-Trichloroethane	25.0	25.5		ug/L		102	76 - 122
1,1-Dichloroethane	25.0	23.1		ug/L		92	77 - 120
1,1-Dichloroethene	25.0	20.7		ug/L		83	66 - 127
1,2,3-Trimethylbenzene	25.0	25.1		ug/L		100	78 - 120
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	79 - 122
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.2		ug/L		101	56 - 134
1,2-Dibromoethane	25.0	26.2		ug/L		105	77 - 120
1,2-Dichlorobenzene	25.0	23.7		ug/L		95	80 - 124
1,2-Dichloroethane	25.0	24.3		ug/L		97	75 - 120
1,2-Dichloropropane	25.0	24.9		ug/L		100	76 - 120
1,3,5-Trimethylbenzene	25.0	23.8		ug/L		95	77 - 121
1,3-Dichlorobenzene	25.0	23.5		ug/L		94	77 - 120
1,4-Dichlorobenzene	25.0	23.6		ug/L		94	80 - 120
2-Butanone (MEK)	125	136		ug/L		109	57 - 140
2-Hexanone	125	133		ug/L		106	65 - 127
4-Methyl-2-pentanone (MIBK)	125	128		ug/L		102	71 - 125
Acetone	125	128		ug/L		103	56 - 142
Benzene	25.0	23.2		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.9		ug/L		99	80 - 122
Bromoform	25.0	24.4		ug/L		98	61 - 132
Bromomethane	25.0	16.8		ug/L		67	55 - 144
Carbon disulfide	25.0	19.6		ug/L		78	59 - 134
Carbon tetrachloride	25.0	20.3		ug/L		81	72 - 134
Chlorobenzene	25.0	24.8		ug/L		99	80 - 120
Chloroethane	25.0	19.2		ug/L		77	69 - 136
Chloroform	25.0	22.9		ug/L		92	73 - 127
Chloromethane	25.0	20.5		ug/L		82	68 - 124
cis-1,2-Dichloroethene	25.0	23.1		ug/L		93	74 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-115126-1

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

Lab Sample ID: LCS 480-349371/27

Matrix: Water

Analysis Batch: 349371

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	26.2		ug/L		105	74 - 124
Cyclohexane	25.0	20.4		ug/L		81	59 - 135
Dibromochloromethane	25.0	25.9		ug/L		104	75 - 125
Dichlorodifluoromethane	25.0	16.0		ug/L		64	59 - 135
Ethylbenzene	25.0	23.0		ug/L		92	77 - 123
Isopropylbenzene	25.0	22.9		ug/L		91	77 - 122
Methyl acetate	125	124		ug/L		99	74 - 133
Methyl tert-butyl ether	25.0	24.2		ug/L		97	77 - 120
Methylcyclohexane	25.0	21.1		ug/L		84	68 - 134
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124
Styrene	25.0	23.3		ug/L		93	80 - 120
Tetrachloroethene	25.0	23.7		ug/L		95	74 - 122
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	22.8		ug/L		91	73 - 127
trans-1,3-Dichloropropene	25.0	25.3		ug/L		101	80 - 120
Trichloroethene	25.0	22.9		ug/L		92	74 - 123
Trichlorofluoromethane	25.0	21.4		ug/L		86	62 - 150
Vinyl chloride	25.0	19.1		ug/L		76	65 - 133

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

QC Association Summary

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

TestAmerica Job ID: 480-115126-1

GC/MS VOA

Analysis Batch: 349371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-115126-1	WELL 1-2A	Total/NA	Water	8260C	
480-115126-2	WELL 1-3	Total/NA	Water	8260C	
MB 480-349371/6	Method Blank	Total/NA	Water	8260C	
LCS 480-349371/27	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-115126-1

Client Sample ID: WELL 1-2A

Date Collected: 03/23/17 10:05

Date Received: 03/27/17 10:00

Lab Sample ID: 480-115126-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	349371	03/29/17 23:39	NEA	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 03/23/17 10:10

Date Received: 03/27/17 10:00

Lab Sample ID: 480-115126-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	349371	03/30/17 00:07	NEA	TAL BUF

Laboratory References:

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

Certification Summary

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

TestAmerica Job ID: 480-115126-1

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Certification ID	Expiration Date
New York	NELAP	2	10026	03-31-17 *

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

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

* Certification renewal pending - certification considered valid.

TestAmerica Buffalo

Method Summary

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

TestAmerica Job ID: 480-115126-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: 480-115126-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-115126-1	WELL 1-2A	Water	03/23/17 10:05	03/27/17 10:00
480-115126-2	WELL 1-3	Water	03/23/17 10:10	03/27/17 10:00

Chain of Custody Record

Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State: NY Zip: 12065 Phone: 518-250-7300 (Tel) Email: katie.bidwell@arcadis-us.com Project Name: NYSDEC-Standby VESTAL Site:		Lab PM: Stone, Judy L E-Mail: judy.stone@testamericainc.com Phone: 315-436-5041 Carrier Tracking No(s): 480-86495-18034.1 Page: 1 of 1 Job #:	
Due Date Requested: TAT Requested (days): STD PO #: Project 00266401.0000 WO #: Contract D007618 Project #: 48005198 SSOW#:		Analysis Requested Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHS F - MeOH G - Amd H - Assoc I - Ice J - DI W K - EDTL L - EDA Other: 480-115126 COC (Hy) anhydrate	
Sample Identification Sample Date Sample Time Sample Type Matrix Well 1-2A 3-23-17 10:05 G Water Well 1-3 3-23-17 10:10 G Water Trip Blank 032317 - Water		Field Filtered Sample (Yes or No) 8260C - (MOD) TCL list OLM04.2 Total Number of Containers Special Instructions/Note:	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological Deliverable Requested: I, II, III, ☒ 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:			
Empty Kit Relinquished by: Relinquished by: hand D. Whalen Relinquished by: Relinquished by:		Date: 3/23/17 16:30 Date/Time: Date/Time: Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks: 4.9 #1	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-115126-1

Login Number: 115126

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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.	False	Trip blank - received 3 empty vials
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.	False	
Samples received within 48 hours of sampling.	False	
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: 480-116018-1

Client Project/Site: NYSDEC-Standby VESTAL

Revision: 1

For:

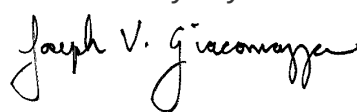
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

5/30/2017 5:41:45 PM

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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	6
Client Sample Results	11
Surrogate Summary	51
QC Sample Results	52
QC Association Summary	66
Lab Chronicle	67
Certification Summary	72
Method Summary	73
Sample Summary	74
Chain of Custody	75
Receipt Checklists	83



Definitions/Glossary

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

TestAmerica Job ID: 480-116018-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	LCS or LCSD is outside acceptance limits.
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: 480-116018-1

Job ID: 480-116018-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-116018-1

Revision I

Report was revised to correct mislabeled containers in the field as per client request.

Receipt

The samples were received on 4/12/2017 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 0.4° C and 0.8° C.

Receipt Exceptions

The following samples were canceled by the client on 4/12/17 WELL 1-1 (480-116018-1), 4009-14 (480-116018-6), 4009-14 (480-116018-6[MS]), and 4009-14 (480-116018-6[MSD]).

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-353184 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 4009-9 (480-116018-2), 4009-10 (480-116018-3), 4009-11 (480-116018-4), 4009-12 (480-116018-5), 4009-15 (480-116018-7), 4009-16A (480-116018-8), 4009-18 (480-116018-9), 4009-19 (480-116018-10), 4009-21 (480-116018-11) and 4009-27I (480-116018-14).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-353184 recovered outside control limits for the following analyte: 2-Butanone (MEK). The analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. 4009-9 (480-116018-2), 4009-10 (480-116018-3), 4009-11 (480-116018-4), 4009-12 (480-116018-5), 4009-15 (480-116018-7), 4009-16A (480-116018-8), 4009-18 (480-116018-9), 4009-19 (480-116018-10), 4009-21 (480-116018-11) and 4009-27I (480-116018-14).

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-353184 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. 4009-27I (480-116018-14[MS]) and 4009-27I (480-116018-14[MSD]).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-353253 recovered above the upper control limit for 2-Hexanone and 1,1,1-Trichloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 4009-22 (480-116018-12) and 4009-29D (480-116018-19).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-353253 recovered above the upper control limit for 2-Hexanone. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: 4009-27S (480-116018-13), 4009-27D (480-116018-15) and 4009-29S (480-116018-17).

Method(s) 8260C: The continuing calibration verification (CCV) analyzed in 480-353253 was outside the method criteria for the following analyte: 1,1,1-Trichloroethane. As indicated in the reference method, sample analysis may proceed; however, any detection for the affected analyte is considered estimated. The following samples are impacted: 4009-27S (480-116018-13), 4009-27D (480-116018-15) and 4009-29S (480-116018-17).

Method(s) 8260C: Due to the co-elution of Ethyl Acetate with 2-Butanone (MEK) in the full spike solution, these analytes exceeded control limits in the laboratory control sample (LCS) associated with batch 480-353253. The following samples were affected : 4009-22 (480-116018-12), 4009-27S (480-116018-13), 4009-27D (480-116018-15), 4009-29S (480-116018-17) and 4009-29D (480-116018-19).

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-12 (480-116018-5), 4009-27S (480-116018-13), 4009-27I (480-116018-14), 4009-27I (480-116018-14[MS]), 4009-27I (480-116018-14[MSD]), 4009-27D (480-116018-15), 4009-29S (480-116018-17), DUP-2 20170410 (480-116018-24), 4009-8 (480-116018-27) and 4009-26 (480-116018-28). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Due to the coelution of Ethyl Acetate with 2-Butanone in the full spike solution, these analytes exceeded control limits in

Case Narrative

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

TestAmerica Job ID: 480-116018-1

Job ID: 480-116018-1 (Continued)

Laboratory: TestAmerica Buffalo (Continued)

the laboratory control sample (LCS) associated with batch 480-353390. The following samples were affected : 4009-12 (480-116018-5), 4009-27S (480-116018-13), 4009-27I (480-116018-14), 4009-27D (480-116018-15), 4009-28 (480-116018-16), 4009-29I (480-116018-18), 4009-30 (480-116018-20), 4009-30A (480-116018-21), 4009-11A (480-116018-22), DUP-1 20170410 (480-116018-23), DUP-2 20170410 (480-116018-24), FIELD BLANK (480-116018-25), 4009-7 (480-116018-26), 4009-8 (480-116018-27), 4009-26 (480-116018-28) and TB-2017 0410 (480-116018-29).

Method(s) 8260C: Due to only one volume of the matrix spike / matrix spike duplicate (MS/MSD) being provided by the client, reanalysis of the MS/MSD was performed using a parent volume. The following sample was affected: 4009-27I (480-116018-14[MS]) and 4009-27I (480-116018-14[MSD])

Method(s) 8260C: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 480-353390 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. 4009-27I (480-116018-14[MS]) and 4009-27I (480-116018-14[MSD]).

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: 480-116018-1

Client Sample ID: 4009-9

Lab Sample ID: 480-116018-2

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
cis-1,2-Dichloroethene	8.2		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.97	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-10

Lab Sample ID: 480-116018-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.4	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-11

Lab Sample ID: 480-116018-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	2.8		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	3.7	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	15		1.0	0.41	ug/L	1		8260C	Total/NA
Toluene	0.85	J	1.0	0.51	ug/L	1		8260C	Total/NA
Vinyl chloride	1.1		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-12

Lab Sample ID: 480-116018-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	110	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	18		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	3.2		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	5.5	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	3.6		1.0	0.41	ug/L	1		8260C	Total/NA
Chloroethane	1.1		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	3.0		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	5.7		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	100		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	1.7	J	2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane - DL	16		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene - DL	2.4		2.0	0.58	ug/L	2		8260C	Total/NA
Benzene - DL	3.3		2.0	0.82	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene - DL	9.7		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene - DL	2.7		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride - DL	5.2		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-15

Lab Sample ID: 480-116018-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	1.1		1.0	0.82	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	0.98	J	1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	4.5	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.97	J	1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-16A

Lab Sample ID: 480-116018-8

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: 480-116018-1

Client Sample ID: 4009-16A (Continued)

Lab Sample ID: 480-116018-8

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
Benzene	1.8		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-18

Lab Sample ID: 480-116018-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	0.83	J	1.0	0.82	ug/L	1		8260C	Total/NA
Acetone	6.4	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-19

Lab Sample ID: 480-116018-10

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: 4009-21

Lab Sample ID: 480-116018-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.1	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	24		1.0	0.41	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-22

Lab Sample ID: 480-116018-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.5	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	1.1		1.0	0.41	ug/L	1		8260C	Total/NA
Methylene Chloride	1.8		1.0	0.44	ug/L	1		8260C	Total/NA
Toluene	1.0		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-29S

Lab Sample ID: 480-116018-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	430	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	82		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	32		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	4.9	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.7		1.0	0.41	ug/L	1		8260C	Total/NA
Carbon disulfide	0.23	J	1.0	0.19	ug/L	1		8260C	Total/NA
Chloroethane	2.1		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	160	E	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	0.36	J	1.0	0.36	ug/L	1		8260C	Total/NA
Trichloroethene	17		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	130	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	480		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	5.0	J	10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane - DL	89		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene - DL	36		10	2.9	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene - DL	180		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene - DL	20		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride - DL	130		10	9.0	ug/L	10		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: 480-116018-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-116018-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	750	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	12		1.0	0.31	ug/L	1		8260C	Total/NA
1,1,2-Trichloroethane	0.60	J	1.0	0.23	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	89		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	80		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	5.2	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	0.71	J	1.0	0.41	ug/L	1		8260C	Total/NA
Chlorobenzene	1.1		1.0	0.75	ug/L	1		8260C	Total/NA
Chloroethane	3.9		1.0	0.32	ug/L	1		8260C	Total/NA
Chloroform	0.67	J	1.0	0.34	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	270	E	1.0	0.81	ug/L	1		8260C	Total/NA
Tetrachloroethene	1.4		1.0	0.36	ug/L	1		8260C	Total/NA
trans-1,2-Dichloroethene	1.2		1.0	0.90	ug/L	1		8260C	Total/NA
Trichloroethene	290	E	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	110	E	1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	1000		20	16	ug/L	20		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	15	J	20	6.2	ug/L	20		8260C	Total/NA
1,1-Dichloroethane - DL	100		20	7.6	ug/L	20		8260C	Total/NA
1,1-Dichloroethene - DL	85		20	5.8	ug/L	20		8260C	Total/NA
cis-1,2-Dichloroethene - DL	330		20	16	ug/L	20		8260C	Total/NA
Trichloroethene - DL	340		20	9.2	ug/L	20		8260C	Total/NA
Vinyl chloride - DL	130		20	18	ug/L	20		8260C	Total/NA

Client Sample ID: 4009-29D

Lab Sample ID: 480-116018-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	260	E	1.0	0.82	ug/L	1		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2		1.0	0.31	ug/L	1		8260C	Total/NA
1,1-Dichloroethane	44		1.0	0.38	ug/L	1		8260C	Total/NA
1,1-Dichloroethene	26		1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	4.5	J	10	3.0	ug/L	1		8260C	Total/NA
Chloroethane	4.4		1.0	0.32	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	120	E	1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	61		1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	73		1.0	0.90	ug/L	1		8260C	Total/NA
1,1,1-Trichloroethane - DL	270		5.0	4.1	ug/L	5		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	4.2	J	5.0	1.6	ug/L	5		8260C	Total/NA
1,1-Dichloroethane - DL	47		5.0	1.9	ug/L	5		8260C	Total/NA
1,1-Dichloroethene - DL	27		5.0	1.5	ug/L	5		8260C	Total/NA
Chloroethane - DL	3.8	J	5.0	1.6	ug/L	5		8260C	Total/NA
cis-1,2-Dichloroethene - DL	130		5.0	4.1	ug/L	5		8260C	Total/NA
Trichloroethene - DL	61		5.0	2.3	ug/L	5		8260C	Total/NA
Vinyl chloride - DL	71		5.0	4.5	ug/L	5		8260C	Total/NA

Client Sample ID: 4009-28

Lab Sample ID: 480-116018-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	9.3	J	10	3.0	ug/L	1		8260C	Total/NA
Benzene	2.9		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: 480-116018-1

Client Sample ID: 4009-28 (Continued)

Lab Sample ID: 480-116018-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	1.8		1.0	0.51	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27S

Lab Sample ID: 480-116018-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	54		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0		2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	2.4		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	5.1		2.0	0.58	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	20		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	22		2.0	0.92	ug/L	2		8260C	Total/NA

Client Sample ID: 4009-27I

Lab Sample ID: 480-116018-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	5.3	J	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	0.74	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-27D

Lab Sample ID: 480-116018-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	3.9	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30

Lab Sample ID: 480-116018-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	1.3		1.0	0.38	ug/L	1		8260C	Total/NA
Acetone	7.2	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-30A

Lab Sample ID: 480-116018-21

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

Client Sample ID: 4009-11A

Lab Sample ID: 480-116018-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	4.1	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-1 20170410

Lab Sample ID: 480-116018-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	6.4	J	10	3.0	ug/L	1		8260C	Total/NA
Trichloroethene	0.75	J	1.0	0.46	ug/L	1		8260C	Total/NA

Client Sample ID: DUP-2 20170410

Lab Sample ID: 480-116018-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	110		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	J	2.0	0.62	ug/L	2		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: 480-116018-1

Client Sample ID: DUP-2 20170410 (Continued)

Lab Sample ID: 480-116018-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1-Dichloroethane	17		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	2.6		2.0	0.58	ug/L	2		8260C	Total/NA
Benzene	3.3		2.0	0.82	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	11		2.0	1.6	ug/L	2		8260C	Total/NA
Trichloroethene	3.3		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	5.7		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-116018-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	7.7	J	10	3.0	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-7

Lab Sample ID: 480-116018-26

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
1,1-Dichloroethene	0.44	J	1.0	0.29	ug/L	1		8260C	Total/NA
Acetone	3.4	J	10	3.0	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	42		1.0	0.81	ug/L	1		8260C	Total/NA
Trichloroethene	0.93	J	1.0	0.46	ug/L	1		8260C	Total/NA
Vinyl chloride	22		1.0	0.90	ug/L	1		8260C	Total/NA

Client Sample ID: 4009-8

Lab Sample ID: 480-116018-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	560		10	8.2	ug/L	10		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	J	10	3.1	ug/L	10		8260C	Total/NA
1,1-Dichloroethane	51		10	3.8	ug/L	10		8260C	Total/NA
1,1-Dichloroethene	31		10	2.9	ug/L	10		8260C	Total/NA
Chloroethane	7.8	J	10	3.2	ug/L	10		8260C	Total/NA
cis-1,2-Dichloroethene	230		10	8.1	ug/L	10		8260C	Total/NA
Trichloroethene	150		10	4.6	ug/L	10		8260C	Total/NA
Vinyl chloride	30		10	9.0	ug/L	10		8260C	Total/NA

Client Sample ID: 4009-26

Lab Sample ID: 480-116018-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,1,1-Trichloroethane	100		2.0	1.6	ug/L	2		8260C	Total/NA
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3		2.0	0.62	ug/L	2		8260C	Total/NA
1,1-Dichloroethane	30		2.0	0.76	ug/L	2		8260C	Total/NA
1,1-Dichloroethene	3.8		2.0	0.58	ug/L	2		8260C	Total/NA
Acetone	7.4	J	20	6.0	ug/L	2		8260C	Total/NA
Chloroethane	3.6		2.0	0.64	ug/L	2		8260C	Total/NA
cis-1,2-Dichloroethene	81		2.0	1.6	ug/L	2		8260C	Total/NA
Tetrachloroethene	0.84	J	2.0	0.72	ug/L	2		8260C	Total/NA
Trichloroethene	45		2.0	0.92	ug/L	2		8260C	Total/NA
Vinyl chloride	5.2		2.0	1.8	ug/L	2		8260C	Total/NA

Client Sample ID: TB-2017 0410

Lab Sample ID: 480-116018-29

No Detections.

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: 480-116018-1

Client Sample ID: 4009-9

Date Collected: 04/10/17 13:30

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-2

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			04/20/17 23:57	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/20/17 23:57	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/20/17 23:57	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/20/17 23:57	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/20/17 23:57	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/20/17 23:57	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/20/17 23:57	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/20/17 23:57	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/20/17 23:57	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/20/17 23:57	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/20/17 23:57	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/20/17 23:57	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/20/17 23:57	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/20/17 23:57	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/20/17 23:57	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/20/17 23:57	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/20/17 23:57	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/20/17 23:57	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/20/17 23:57	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/20/17 23:57	1
Acetone	3.5	J	10	3.0	ug/L			04/20/17 23:57	1
Benzene	1.0	U	1.0	0.41	ug/L			04/20/17 23:57	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/20/17 23:57	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/20/17 23:57	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/20/17 23:57	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/20/17 23:57	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/20/17 23:57	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/20/17 23:57	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/20/17 23:57	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/20/17 23:57	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/20/17 23:57	1
cis-1,2-Dichloroethene	8.2		1.0	0.81	ug/L			04/20/17 23:57	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/20/17 23:57	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/20/17 23:57	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/20/17 23:57	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/20/17 23:57	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/17 23:57	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/20/17 23:57	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/20/17 23:57	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/20/17 23:57	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/20/17 23:57	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/20/17 23:57	1
Styrene	1.0	U	1.0	0.73	ug/L			04/20/17 23:57	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/20/17 23:57	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/17 23:57	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/20/17 23:57	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/20/17 23:57	1
Trichloroethene	0.97	J	1.0	0.46	ug/L			04/20/17 23:57	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/20/17 23:57	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-9

Date Collected: 04/10/17 13:30

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-2

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			04/20/17 23:57	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/17 23:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120					04/20/17 23:57	1
4-Bromofluorobenzene (Surr)	88		73 - 120					04/20/17 23:57	1
Dibromofluoromethane (Surr)	97		75 - 123					04/20/17 23:57	1
Toluene-d8 (Surr)	94		80 - 120					04/20/17 23:57	1

Client Sample ID: 4009-10

Date Collected: 04/10/17 13:40

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-3

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			04/21/17 00:24	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 00:24	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 00:24	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 00:24	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 00:24	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 00:24	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 00:24	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 00:24	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 00:24	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 00:24	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 00:24	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 00:24	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 00:24	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 00:24	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 00:24	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 00:24	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 00:24	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 00:24	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 00:24	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 00:24	1
Acetone	3.4	J	10	3.0	ug/L			04/21/17 00:24	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 00:24	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 00:24	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 00:24	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 00:24	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 00:24	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 00:24	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 00:24	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 00:24	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 00:24	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 00:24	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 00:24	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 00:24	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 00:24	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 00:24	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-10

Date Collected: 04/10/17 13:40

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-3

Matrix: Water

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			04/21/17 00:24	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 00:24	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 00:24	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 00:24	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 00:24	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 00:24	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 00:24	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 00:24	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 00:24	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 00:24	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 00:24	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 00:24	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 00:24	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 00:24	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 00:24	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 00:24	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/21/17 00:24	1
4-Bromofluorobenzene (Surr)	87		73 - 120		04/21/17 00:24	1
Dibromofluoromethane (Surr)	97		75 - 123		04/21/17 00:24	1
Toluene-d8 (Surr)	94		80 - 120		04/21/17 00:24	1

Client Sample ID: 4009-11

Date Collected: 04/10/17 13:50

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-4

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			04/21/17 00:52	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 00:52	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 00:52	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 00:52	1
1,1-Dichloroethane	2.8		1.0	0.38	ug/L			04/21/17 00:52	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 00:52	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 00:52	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 00:52	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 00:52	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 00:52	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 00:52	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 00:52	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 00:52	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 00:52	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 00:52	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 00:52	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 00:52	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 00:52	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 00:52	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 00:52	1
Acetone	3.7	J	10	3.0	ug/L			04/21/17 00:52	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-11

Date Collected: 04/10/17 13:50

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	15		1.0	0.41	ug/L			04/21/17 00:52	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 00:52	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 00:52	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 00:52	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 00:52	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 00:52	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 00:52	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 00:52	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 00:52	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 00:52	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 00:52	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 00:52	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 00:52	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 00:52	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 00:52	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 00:52	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 00:52	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 00:52	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 00:52	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 00:52	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 00:52	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 00:52	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 00:52	1
Toluene	0.85	J	1.0	0.51	ug/L			04/21/17 00:52	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 00:52	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 00:52	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 00:52	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 00:52	1
Vinyl chloride	1.1		1.0	0.90	ug/L			04/21/17 00:52	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 00:52	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		04/21/17 00:52	1
4-Bromofluorobenzene (Surr)	89		73 - 120		04/21/17 00:52	1
Dibromofluoromethane (Surr)	101		75 - 123		04/21/17 00:52	1
Toluene-d8 (Surr)	95		80 - 120		04/21/17 00:52	1

Client Sample ID: 4009-12

Date Collected: 04/10/17 12:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-5

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	110	E	1.0	0.82	ug/L			04/21/17 01:19	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 01:19	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.9		1.0	0.31	ug/L			04/21/17 01:19	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 01:19	1
1,1-Dichloroethane	18		1.0	0.38	ug/L			04/21/17 01:19	1
1,1-Dichloroethene	3.2		1.0	0.29	ug/L			04/21/17 01:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-12

Date Collected: 04/10/17 12:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-5

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			04/21/17 01:19	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 01:19	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 01:19	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 01:19	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 01:19	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 01:19	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 01:19	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 01:19	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 01:19	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 01:19	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 01:19	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 01:19	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 01:19	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 01:19	1
Acetone	5.5	J	10	3.0	ug/L			04/21/17 01:19	1
Benzene	3.6		1.0	0.41	ug/L			04/21/17 01:19	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 01:19	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 01:19	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 01:19	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 01:19	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 01:19	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 01:19	1
Chloroethane	1.1		1.0	0.32	ug/L			04/21/17 01:19	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 01:19	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 01:19	1
cis-1,2-Dichloroethene	11		1.0	0.81	ug/L			04/21/17 01:19	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 01:19	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 01:19	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 01:19	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 01:19	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 01:19	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 01:19	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 01:19	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 01:19	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 01:19	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 01:19	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 01:19	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 01:19	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 01:19	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 01:19	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 01:19	1
Trichloroethene	3.0		1.0	0.46	ug/L			04/21/17 01:19	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 01:19	1
Vinyl chloride	5.7		1.0	0.90	ug/L			04/21/17 01:19	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 01:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		04/21/17 01:19	1
4-Bromofluorobenzene (Surr)	88		73 - 120		04/21/17 01:19	1
Dibromofluoromethane (Surr)	98		75 - 123		04/21/17 01:19	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-12

Date Collected: 04/10/17 12:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-5

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		04/21/17 01:19	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	100		2.0	1.6	ug/L			04/22/17 01:04	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 01:04	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.7	J	2.0	0.62	ug/L			04/22/17 01:04	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			04/22/17 01:04	2
1,1-Dichloroethane	16		2.0	0.76	ug/L			04/22/17 01:04	2
1,1-Dichloroethene	2.4		2.0	0.58	ug/L			04/22/17 01:04	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			04/22/17 01:04	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			04/22/17 01:04	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			04/22/17 01:04	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 01:04	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 01:04	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			04/22/17 01:04	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 01:04	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			04/22/17 01:04	2
2-Butanone (MEK)	20	U *	20	2.6	ug/L			04/22/17 01:04	2
2-Hexanone	10	U	10	2.5	ug/L			04/22/17 01:04	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			04/22/17 01:04	2
Acetone	20	U	20	6.0	ug/L			04/22/17 01:04	2
Benzene	3.3		2.0	0.82	ug/L			04/22/17 01:04	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			04/22/17 01:04	2
Bromoform	2.0	U	2.0	0.52	ug/L			04/22/17 01:04	2
Bromomethane	2.0	U	2.0	1.4	ug/L			04/22/17 01:04	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			04/22/17 01:04	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			04/22/17 01:04	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
Chloroethane	2.0	U	2.0	0.64	ug/L			04/22/17 01:04	2
Chloroform	2.0	U	2.0	0.68	ug/L			04/22/17 01:04	2
Chloromethane	2.0	U	2.0	0.70	ug/L			04/22/17 01:04	2
cis-1,2-Dichloroethene	9.7		2.0	1.6	ug/L			04/22/17 01:04	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			04/22/17 01:04	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			04/22/17 01:04	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			04/22/17 01:04	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			04/22/17 01:04	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			04/22/17 01:04	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			04/22/17 01:04	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			04/22/17 01:04	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			04/22/17 01:04	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			04/22/17 01:04	2
Styrene	2.0	U	2.0	1.5	ug/L			04/22/17 01:04	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			04/22/17 01:04	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-12

Date Collected: 04/10/17 12:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	2.0	U	2.0	1.0	ug/L			04/22/17 01:04	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			04/22/17 01:04	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			04/22/17 01:04	2
Trichloroethene	2.7		2.0	0.92	ug/L			04/22/17 01:04	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			04/22/17 01:04	2
Vinyl chloride	5.2		2.0	1.8	ug/L			04/22/17 01:04	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/22/17 01:04	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	94		77 - 120		04/22/17 01:04	2
4-Bromofluorobenzene (Surr)	88		73 - 120		04/22/17 01:04	2
Dibromofluoromethane (Surr)	94		75 - 123		04/22/17 01:04	2
Toluene-d8 (Surr)	93		80 - 120		04/22/17 01:04	2

Client Sample ID: 4009-15

Date Collected: 04/10/17 11:47

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-7

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	1.1		1.0	0.82	ug/L			04/21/17 01:47	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 01:47	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 01:47	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 01:47	1
1,1-Dichloroethane	0.98	J	1.0	0.38	ug/L			04/21/17 01:47	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 01:47	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 01:47	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 01:47	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 01:47	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 01:47	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 01:47	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 01:47	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 01:47	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 01:47	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 01:47	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 01:47	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 01:47	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 01:47	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 01:47	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 01:47	1
Acetone	4.5	J	10	3.0	ug/L			04/21/17 01:47	1
Benzene	0.97	J	1.0	0.41	ug/L			04/21/17 01:47	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 01:47	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 01:47	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 01:47	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 01:47	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 01:47	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 01:47	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 01:47	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 01:47	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-15

Date Collected: 04/10/17 11:47

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 01:47	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 01:47	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 01:47	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 01:47	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 01:47	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 01:47	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 01:47	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 01:47	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 01:47	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 01:47	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 01:47	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 01:47	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 01:47	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 01:47	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 01:47	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 01:47	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 01:47	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 01:47	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 01:47	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 01:47	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 01:47	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/21/17 01:47	1
4-Bromofluorobenzene (Surr)	86		73 - 120		04/21/17 01:47	1
Dibromofluoromethane (Surr)	98		75 - 123		04/21/17 01:47	1
Toluene-d8 (Surr)	92		80 - 120		04/21/17 01:47	1

Client Sample ID: 4009-16A

Date Collected: 04/10/17 10:03

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-8

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			04/21/17 02:14	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 02:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 02:14	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 02:14	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 02:14	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 02:14	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 02:14	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 02:14	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 02:14	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 02:14	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 02:14	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 02:14	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 02:14	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 02:14	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 02:14	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 02:14	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-16A

Date Collected: 04/10/17 10:03

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-8

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	1.0	U	1.0	0.84	ug/L			04/21/17 02:14	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 02:14	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 02:14	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 02:14	1
Acetone	5.0	J	10	3.0	ug/L			04/21/17 02:14	1
Benzene	1.8		1.0	0.41	ug/L			04/21/17 02:14	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 02:14	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 02:14	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 02:14	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 02:14	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 02:14	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 02:14	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 02:14	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 02:14	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 02:14	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 02:14	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 02:14	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 02:14	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 02:14	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 02:14	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 02:14	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 02:14	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 02:14	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 02:14	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 02:14	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 02:14	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 02:14	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 02:14	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 02:14	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 02:14	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 02:14	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 02:14	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 02:14	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 02:14	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 02:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120					04/21/17 02:14	1
4-Bromofluorobenzene (Surr)	87		73 - 120					04/21/17 02:14	1
Dibromofluoromethane (Surr)	98		75 - 123					04/21/17 02:14	1
Toluene-d8 (Surr)	93		80 - 120					04/21/17 02:14	1

Client Sample ID: 4009-18

Date Collected: 04/10/17 11:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-9

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	0.83	J	1.0	0.82	ug/L			04/21/17 02:42	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 02:42	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-18

Date Collected: 04/10/17 11:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-9

Matrix: Water

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			04/21/17 02:42	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 02:42	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 02:42	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 02:42	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 02:42	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 02:42	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 02:42	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 02:42	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 02:42	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 02:42	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 02:42	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 02:42	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 02:42	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 02:42	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 02:42	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 02:42	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 02:42	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 02:42	1
Acetone	6.4	J	10	3.0	ug/L			04/21/17 02:42	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 02:42	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 02:42	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 02:42	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 02:42	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 02:42	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 02:42	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 02:42	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 02:42	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 02:42	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 02:42	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 02:42	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 02:42	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 02:42	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 02:42	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 02:42	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 02:42	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 02:42	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 02:42	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 02:42	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 02:42	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 02:42	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 02:42	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 02:42	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 02:42	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 02:42	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 02:42	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 02:42	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 02:42	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 02:42	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 02:42	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-18

Date Collected: 04/10/17 11:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-9

Matrix: Water

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		04/21/17 02:42	1
4-Bromofluorobenzene (Surr)	86		73 - 120		04/21/17 02:42	1
Dibromofluoromethane (Surr)	98		75 - 123		04/21/17 02:42	1
Toluene-d8 (Surr)	94		80 - 120		04/21/17 02:42	1

Client Sample ID: 4009-19

Date Collected: 04/10/17 11:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-10

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			04/21/17 03:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 03:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 03:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 03:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 03:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 03:09	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 03:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 03:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 03:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 03:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 03:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 03:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 03:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 03:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 03:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 03:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 03:09	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 03:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 03:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 03:09	1
Acetone	4.2	J	10	3.0	ug/L			04/21/17 03:09	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 03:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 03:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 03:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 03:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 03:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 03:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 03:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 03:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 03:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 03:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 03:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 03:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 03:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 03:09	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 03:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 03:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 03:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 03:09	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-19

Date Collected: 04/10/17 11:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-10

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			04/21/17 03:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 03:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 03:09	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 03:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 03:09	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 03:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 03:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 03:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 03:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 03:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 03:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 03:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/21/17 03:09	1
4-Bromofluorobenzene (Surr)	87		73 - 120		04/21/17 03:09	1
Dibromofluoromethane (Surr)	98		75 - 123		04/21/17 03:09	1
Toluene-d8 (Surr)	95		80 - 120		04/21/17 03:09	1

Client Sample ID: 4009-21

Date Collected: 04/10/17 11:05

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-11

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			04/21/17 03:37	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 03:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 03:37	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 03:37	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 03:37	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 03:37	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 03:37	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 03:37	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 03:37	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 03:37	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 03:37	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 03:37	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 03:37	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 03:37	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 03:37	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 03:37	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 03:37	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 03:37	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 03:37	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 03:37	1
Acetone	7.1	J	10	3.0	ug/L			04/21/17 03:37	1
Benzene	24		1.0	0.41	ug/L			04/21/17 03:37	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 03:37	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 03:37	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 03:37	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-21

Date Collected: 04/10/17 11:05

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-11

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			04/21/17 03:37	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 03:37	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 03:37	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 03:37	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 03:37	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 03:37	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 03:37	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 03:37	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 03:37	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 03:37	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 03:37	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 03:37	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 03:37	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 03:37	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 03:37	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 03:37	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 03:37	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 03:37	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 03:37	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 03:37	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 03:37	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 03:37	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 03:37	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 03:37	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 03:37	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 03:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/21/17 03:37	1
4-Bromofluorobenzene (Surr)	85		73 - 120		04/21/17 03:37	1
Dibromofluoromethane (Surr)	98		75 - 123		04/21/17 03:37	1
Toluene-d8 (Surr)	93		80 - 120		04/21/17 03:37	1

Client Sample ID: 4009-22

Date Collected: 04/10/17 09:26

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-12

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			04/21/17 16:59	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 16:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 16:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 16:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 16:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 16:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 16:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 16:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 16:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 16:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 16:59	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-22

Lab Sample ID: 480-116018-12

Date Collected: 04/10/17 09:26

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 16:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 16:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 16:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 16:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 16:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 16:59	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 16:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 16:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 16:59	1
Acetone	6.5	J	10	3.0	ug/L			04/21/17 16:59	1
Benzene	1.1		1.0	0.41	ug/L			04/21/17 16:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 16:59	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 16:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 16:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 16:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 16:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 16:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 16:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 16:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 16:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 16:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 16:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 16:59	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 16:59	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 16:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 16:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 16:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 16:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 16:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 16:59	1
Methylene Chloride	1.8		1.0	0.44	ug/L			04/21/17 16:59	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 16:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 16:59	1
Toluene	1.0		1.0	0.51	ug/L			04/21/17 16:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 16:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 16:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 16:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 16:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 16:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 16:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		04/21/17 16:59	1
4-Bromofluorobenzene (Surr)	90		73 - 120		04/21/17 16:59	1
Dibromofluoromethane (Surr)	94		75 - 123		04/21/17 16:59	1
Toluene-d8 (Surr)	94		80 - 120		04/21/17 16:59	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-116018-13

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 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	430	E	1.0	0.82	ug/L			04/21/17 17:26	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 17:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0		1.0	0.31	ug/L			04/21/17 17:26	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 17:26	1
1,1-Dichloroethane	82		1.0	0.38	ug/L			04/21/17 17:26	1
1,1-Dichloroethene	32		1.0	0.29	ug/L			04/21/17 17:26	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 17:26	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 17:26	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 17:26	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 17:26	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 17:26	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 17:26	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 17:26	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 17:26	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 17:26	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 17:26	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 17:26	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 17:26	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 17:26	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 17:26	1
Acetone	4.9	J	10	3.0	ug/L			04/21/17 17:26	1
Benzene	2.7		1.0	0.41	ug/L			04/21/17 17:26	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 17:26	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 17:26	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 17:26	1
Carbon disulfide	0.23	J	1.0	0.19	ug/L			04/21/17 17:26	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 17:26	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 17:26	1
Chloroethane	2.1		1.0	0.32	ug/L			04/21/17 17:26	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 17:26	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 17:26	1
cis-1,2-Dichloroethene	160	E	1.0	0.81	ug/L			04/21/17 17:26	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 17:26	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 17:26	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 17:26	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 17:26	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 17:26	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 17:26	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 17:26	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 17:26	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 17:26	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 17:26	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 17:26	1
Tetrachloroethene	0.36	J	1.0	0.36	ug/L			04/21/17 17:26	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 17:26	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 17:26	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 17:26	1
Trichloroethene	17		1.0	0.46	ug/L			04/21/17 17:26	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 17:26	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-116018-13

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	130	E	1.0	0.90	ug/L			04/21/17 17:26	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 17:26	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120					04/21/17 17:26	1
4-Bromofluorobenzene (Surr)	88		73 - 120					04/21/17 17:26	1
Dibromofluoromethane (Surr)	95		75 - 123					04/21/17 17:26	1
Toluene-d8 (Surr)	95		80 - 120					04/21/17 17:26	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	480		10	8.2	ug/L			04/22/17 01:31	10
1,1,2,2-Tetrachloroethane	10	U	10	2.1	ug/L			04/22/17 01:31	10
1,1,2-Trichloro-1,2,2-trifluoroethane	5.0	J	10	3.1	ug/L			04/22/17 01:31	10
1,1,2-Trichloroethane	10	U	10	2.3	ug/L			04/22/17 01:31	10
1,1-Dichloroethane	89		10	3.8	ug/L			04/22/17 01:31	10
1,1-Dichloroethene	36		10	2.9	ug/L			04/22/17 01:31	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			04/22/17 01:31	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			04/22/17 01:31	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			04/22/17 01:31	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			04/22/17 01:31	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			04/22/17 01:31	10
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			04/22/17 01:31	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			04/22/17 01:31	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			04/22/17 01:31	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			04/22/17 01:31	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			04/22/17 01:31	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			04/22/17 01:31	10
2-Butanone (MEK)	100	U *	100	13	ug/L			04/22/17 01:31	10
2-Hexanone	50	U	50	12	ug/L			04/22/17 01:31	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			04/22/17 01:31	10
Acetone	100	U	100	30	ug/L			04/22/17 01:31	10
Benzene	10	U	10	4.1	ug/L			04/22/17 01:31	10
Bromodichloromethane	10	U	10	3.9	ug/L			04/22/17 01:31	10
Bromoform	10	U	10	2.6	ug/L			04/22/17 01:31	10
Bromomethane	10	U	10	6.9	ug/L			04/22/17 01:31	10
Carbon disulfide	10	U	10	1.9	ug/L			04/22/17 01:31	10
Carbon tetrachloride	10	U	10	2.7	ug/L			04/22/17 01:31	10
Chlorobenzene	10	U	10	7.5	ug/L			04/22/17 01:31	10
Chloroethane	10	U	10	3.2	ug/L			04/22/17 01:31	10
Chloroform	10	U	10	3.4	ug/L			04/22/17 01:31	10
Chloromethane	10	U	10	3.5	ug/L			04/22/17 01:31	10
cis-1,2-Dichloroethene	180		10	8.1	ug/L			04/22/17 01:31	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			04/22/17 01:31	10
Cyclohexane	10	U	10	1.8	ug/L			04/22/17 01:31	10
Dibromochloromethane	10	U	10	3.2	ug/L			04/22/17 01:31	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			04/22/17 01:31	10
Ethylbenzene	10	U	10	7.4	ug/L			04/22/17 01:31	10
Isopropylbenzene	10	U	10	7.9	ug/L			04/22/17 01:31	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29S

Lab Sample ID: 480-116018-13

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	25	U	25	13	ug/L			04/22/17 01:31	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			04/22/17 01:31	10
Methylcyclohexane	10	U	10	1.6	ug/L			04/22/17 01:31	10
Methylene Chloride	10	U	10	4.4	ug/L			04/22/17 01:31	10
Styrene	10	U	10	7.3	ug/L			04/22/17 01:31	10
Tetrachloroethene	10	U	10	3.6	ug/L			04/22/17 01:31	10
Toluene	10	U	10	5.1	ug/L			04/22/17 01:31	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			04/22/17 01:31	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			04/22/17 01:31	10
Trichloroethene	20		10	4.6	ug/L			04/22/17 01:31	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			04/22/17 01:31	10
Vinyl chloride	130		10	9.0	ug/L			04/22/17 01:31	10
Xylenes, Total	20	U	20	6.6	ug/L			04/22/17 01:31	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		04/22/17 01:31	10
4-Bromofluorobenzene (Surr)	89		73 - 120		04/22/17 01:31	10
Dibromofluoromethane (Surr)	95		75 - 123		04/22/17 01:31	10
Toluene-d8 (Surr)	93		80 - 120		04/22/17 01:31	10

Client Sample ID: 4009-29I

Lab Sample ID: 480-116018-14

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 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	750	E	1.0	0.82	ug/L			04/21/17 04:04	1
1,1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 04:04	1
1,1,2-Trichloro-1,2,2-trifluoroethane	12		1.0	0.31	ug/L			04/21/17 04:04	1
1,1,2-Trichloroethane	0.60	J	1.0	0.23	ug/L			04/21/17 04:04	1
1,1-Dichloroethane	89		1.0	0.38	ug/L			04/21/17 04:04	1
1,1-Dichloroethene	80		1.0	0.29	ug/L			04/21/17 04:04	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 04:04	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 04:04	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 04:04	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 04:04	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 04:04	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 04:04	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 04:04	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 04:04	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 04:04	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 04:04	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 04:04	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 04:04	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 04:04	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 04:04	1
Acetone	5.2	J	10	3.0	ug/L			04/21/17 04:04	1
Benzene	0.71	J	1.0	0.41	ug/L			04/21/17 04:04	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 04:04	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-291

Lab Sample ID: 480-116018-14

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 04:04	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 04:04	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 04:04	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 04:04	1
Chlorobenzene	1.1		1.0	0.75	ug/L			04/21/17 04:04	1
Chloroethane	3.9		1.0	0.32	ug/L			04/21/17 04:04	1
Chloroform	0.67	J	1.0	0.34	ug/L			04/21/17 04:04	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 04:04	1
cis-1,2-Dichloroethene	270	E	1.0	0.81	ug/L			04/21/17 04:04	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 04:04	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 04:04	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 04:04	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 04:04	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 04:04	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 04:04	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 04:04	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 04:04	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 04:04	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 04:04	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 04:04	1
Tetrachloroethene	1.4		1.0	0.36	ug/L			04/21/17 04:04	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 04:04	1
trans-1,2-Dichloroethene	1.2		1.0	0.90	ug/L			04/21/17 04:04	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 04:04	1
Trichloroethene	290	E	1.0	0.46	ug/L			04/21/17 04:04	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 04:04	1
Vinyl chloride	110	E	1.0	0.90	ug/L			04/21/17 04:04	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 04:04	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/21/17 04:04	1
4-Bromofluorobenzene (Surr)	86		73 - 120		04/21/17 04:04	1
Dibromofluoromethane (Surr)	93		75 - 123		04/21/17 04:04	1
Toluene-d8 (Surr)	95		80 - 120		04/21/17 04:04	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	1000		20	16	ug/L			04/22/17 01:58	20
1,1,2,2-Tetrachloroethane	20	U	20	4.2	ug/L			04/22/17 01:58	20
1,1,2-Trichloro-1,2,2-trifluoroethane	15	J	20	6.2	ug/L			04/22/17 01:58	20
1,1,2-Trichloroethane	20	U	20	4.6	ug/L			04/22/17 01:58	20
1,1-Dichloroethane	100		20	7.6	ug/L			04/22/17 01:58	20
1,1-Dichloroethene	85		20	5.8	ug/L			04/22/17 01:58	20
1,2,3-Trimethylbenzene	20	U	20	5.2	ug/L			04/22/17 01:58	20
1,2,4-Trichlorobenzene	20	U	20	8.2	ug/L			04/22/17 01:58	20
1,2,4-Trimethylbenzene	20	U	20	15	ug/L			04/22/17 01:58	20
1,2-Dibromo-3-Chloropropane	20	U	20	7.8	ug/L			04/22/17 01:58	20
1,2-Dibromoethane	20	U	20	15	ug/L			04/22/17 01:58	20
1,2-Dichlorobenzene	20	U	20	16	ug/L			04/22/17 01:58	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-291

Lab Sample ID: 480-116018-14

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 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-Dichloroethane	20	U	20	4.2	ug/L			04/22/17 01:58	20
1,2-Dichloropropane	20	U	20	14	ug/L			04/22/17 01:58	20
1,3,5-Trimethylbenzene	20	U	20	15	ug/L			04/22/17 01:58	20
1,3-Dichlorobenzene	20	U	20	16	ug/L			04/22/17 01:58	20
1,4-Dichlorobenzene	20	U	20	17	ug/L			04/22/17 01:58	20
2-Butanone (MEK)	200	U *	200	26	ug/L			04/22/17 01:58	20
2-Hexanone	100	U	100	25	ug/L			04/22/17 01:58	20
4-Methyl-2-pentanone (MIBK)	100	U	100	42	ug/L			04/22/17 01:58	20
Acetone	200	U	200	60	ug/L			04/22/17 01:58	20
Benzene	20	U	20	8.2	ug/L			04/22/17 01:58	20
Bromodichloromethane	20	U	20	7.8	ug/L			04/22/17 01:58	20
Bromoform	20	U	20	5.2	ug/L			04/22/17 01:58	20
Bromomethane	20	U	20	14	ug/L			04/22/17 01:58	20
Carbon disulfide	20	U	20	3.8	ug/L			04/22/17 01:58	20
Carbon tetrachloride	20	U	20	5.4	ug/L			04/22/17 01:58	20
Chlorobenzene	20	U	20	15	ug/L			04/22/17 01:58	20
Chloroethane	20	U	20	6.4	ug/L			04/22/17 01:58	20
Chloroform	20	U	20	6.8	ug/L			04/22/17 01:58	20
Chloromethane	20	U	20	7.0	ug/L			04/22/17 01:58	20
cis-1,2-Dichloroethene	330		20	16	ug/L			04/22/17 01:58	20
cis-1,3-Dichloropropene	20	U	20	7.2	ug/L			04/22/17 01:58	20
Cyclohexane	20	U	20	3.6	ug/L			04/22/17 01:58	20
Dibromochloromethane	20	U	20	6.4	ug/L			04/22/17 01:58	20
Dichlorodifluoromethane	20	U	20	14	ug/L			04/22/17 01:58	20
Ethylbenzene	20	U	20	15	ug/L			04/22/17 01:58	20
Isopropylbenzene	20	U	20	16	ug/L			04/22/17 01:58	20
Methyl acetate	50	U	50	26	ug/L			04/22/17 01:58	20
Methyl tert-butyl ether	20	U	20	3.2	ug/L			04/22/17 01:58	20
Methylcyclohexane	20	U	20	3.2	ug/L			04/22/17 01:58	20
Methylene Chloride	20	U	20	8.8	ug/L			04/22/17 01:58	20
Styrene	20	U	20	15	ug/L			04/22/17 01:58	20
Tetrachloroethene	20	U	20	7.2	ug/L			04/22/17 01:58	20
Toluene	20	U	20	10	ug/L			04/22/17 01:58	20
trans-1,2-Dichloroethene	20	U	20	18	ug/L			04/22/17 01:58	20
trans-1,3-Dichloropropene	20	U	20	7.4	ug/L			04/22/17 01:58	20
Trichloroethene	340		20	9.2	ug/L			04/22/17 01:58	20
Trichlorofluoromethane	20	U	20	18	ug/L			04/22/17 01:58	20
Vinyl chloride	130		20	18	ug/L			04/22/17 01:58	20
Xylenes, Total	40	U	40	13	ug/L			04/22/17 01:58	20

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	96		77 - 120		04/22/17 01:58	20
4-Bromofluorobenzene (Surr)	86		73 - 120		04/22/17 01:58	20
Dibromofluoromethane (Surr)	95		75 - 123		04/22/17 01:58	20
Toluene-d8 (Surr)	94		80 - 120		04/22/17 01:58	20

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-116018-15

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 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	260	E	1.0	0.82	ug/L			04/21/17 18:20	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 18:20	1
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2		1.0	0.31	ug/L			04/21/17 18:20	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 18:20	1
1,1-Dichloroethane	44		1.0	0.38	ug/L			04/21/17 18:20	1
1,1-Dichloroethene	26		1.0	0.29	ug/L			04/21/17 18:20	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 18:20	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 18:20	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 18:20	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 18:20	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 18:20	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 18:20	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 18:20	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 18:20	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 18:20	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 18:20	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 18:20	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 18:20	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 18:20	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 18:20	1
Acetone	4.5	J	10	3.0	ug/L			04/21/17 18:20	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 18:20	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 18:20	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 18:20	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 18:20	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 18:20	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 18:20	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 18:20	1
Chloroethane	4.4		1.0	0.32	ug/L			04/21/17 18:20	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 18:20	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 18:20	1
cis-1,2-Dichloroethene	120	E	1.0	0.81	ug/L			04/21/17 18:20	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 18:20	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 18:20	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 18:20	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/21/17 18:20	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 18:20	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 18:20	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 18:20	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 18:20	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 18:20	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 18:20	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 18:20	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 18:20	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 18:20	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 18:20	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 18:20	1
Trichloroethene	61		1.0	0.46	ug/L			04/21/17 18:20	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 18:20	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-116018-15

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	73		1.0	0.90	ug/L			04/21/17 18:20	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 18:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					04/21/17 18:20	1
4-Bromofluorobenzene (Surr)	88		73 - 120					04/21/17 18:20	1
Dibromofluoromethane (Surr)	97		75 - 123					04/21/17 18:20	1
Toluene-d8 (Surr)	94		80 - 120					04/21/17 18:20	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	270		5.0	4.1	ug/L			04/22/17 02:26	5
1,1,2,2-Tetrachloroethane	5.0	U	5.0	1.1	ug/L			04/22/17 02:26	5
1,1,2-Trichloro-1,2,2-trifluoroethane	4.2	J	5.0	1.6	ug/L			04/22/17 02:26	5
1,1,2-Trichloroethane	5.0	U	5.0	1.2	ug/L			04/22/17 02:26	5
1,1-Dichloroethane	47		5.0	1.9	ug/L			04/22/17 02:26	5
1,1-Dichloroethene	27		5.0	1.5	ug/L			04/22/17 02:26	5
1,2,3-Trimethylbenzene	5.0	U	5.0	1.3	ug/L			04/22/17 02:26	5
1,2,4-Trichlorobenzene	5.0	U	5.0	2.1	ug/L			04/22/17 02:26	5
1,2,4-Trimethylbenzene	5.0	U	5.0	3.8	ug/L			04/22/17 02:26	5
1,2-Dibromo-3-Chloropropane	5.0	U	5.0	2.0	ug/L			04/22/17 02:26	5
1,2-Dibromoethane	5.0	U	5.0	3.7	ug/L			04/22/17 02:26	5
1,2-Dichlorobenzene	5.0	U	5.0	4.0	ug/L			04/22/17 02:26	5
1,2-Dichloroethane	5.0	U	5.0	1.1	ug/L			04/22/17 02:26	5
1,2-Dichloropropane	5.0	U	5.0	3.6	ug/L			04/22/17 02:26	5
1,3,5-Trimethylbenzene	5.0	U	5.0	3.9	ug/L			04/22/17 02:26	5
1,3-Dichlorobenzene	5.0	U	5.0	3.9	ug/L			04/22/17 02:26	5
1,4-Dichlorobenzene	5.0	U	5.0	4.2	ug/L			04/22/17 02:26	5
2-Butanone (MEK)	50	U *	50	6.6	ug/L			04/22/17 02:26	5
2-Hexanone	25	U	25	6.2	ug/L			04/22/17 02:26	5
4-Methyl-2-pentanone (MIBK)	25	U	25	11	ug/L			04/22/17 02:26	5
Acetone	50	U	50	15	ug/L			04/22/17 02:26	5
Benzene	5.0	U	5.0	2.1	ug/L			04/22/17 02:26	5
Bromodichloromethane	5.0	U	5.0	2.0	ug/L			04/22/17 02:26	5
Bromoform	5.0	U	5.0	1.3	ug/L			04/22/17 02:26	5
Bromomethane	5.0	U	5.0	3.5	ug/L			04/22/17 02:26	5
Carbon disulfide	5.0	U	5.0	0.95	ug/L			04/22/17 02:26	5
Carbon tetrachloride	5.0	U	5.0	1.4	ug/L			04/22/17 02:26	5
Chlorobenzene	5.0	U	5.0	3.8	ug/L			04/22/17 02:26	5
Chloroethane	3.8	J	5.0	1.6	ug/L			04/22/17 02:26	5
Chloroform	5.0	U	5.0	1.7	ug/L			04/22/17 02:26	5
Chloromethane	5.0	U	5.0	1.8	ug/L			04/22/17 02:26	5
cis-1,2-Dichloroethene	130		5.0	4.1	ug/L			04/22/17 02:26	5
cis-1,3-Dichloropropene	5.0	U	5.0	1.8	ug/L			04/22/17 02:26	5
Cyclohexane	5.0	U	5.0	0.90	ug/L			04/22/17 02:26	5
Dibromochloromethane	5.0	U	5.0	1.6	ug/L			04/22/17 02:26	5
Dichlorodifluoromethane	5.0	U	5.0	3.4	ug/L			04/22/17 02:26	5
Ethylbenzene	5.0	U	5.0	3.7	ug/L			04/22/17 02:26	5
Isopropylbenzene	5.0	U	5.0	4.0	ug/L			04/22/17 02:26	5

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-116018-15

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl acetate	13	U	13	6.5	ug/L			04/22/17 02:26	5
Methyl tert-butyl ether	5.0	U	5.0	0.80	ug/L			04/22/17 02:26	5
Methylcyclohexane	5.0	U	5.0	0.80	ug/L			04/22/17 02:26	5
Methylene Chloride	5.0	U	5.0	2.2	ug/L			04/22/17 02:26	5
Styrene	5.0	U	5.0	3.7	ug/L			04/22/17 02:26	5
Tetrachloroethene	5.0	U	5.0	1.8	ug/L			04/22/17 02:26	5
Toluene	5.0	U	5.0	2.6	ug/L			04/22/17 02:26	5
trans-1,2-Dichloroethene	5.0	U	5.0	4.5	ug/L			04/22/17 02:26	5
trans-1,3-Dichloropropene	5.0	U	5.0	1.9	ug/L			04/22/17 02:26	5
Trichloroethene	61		5.0	2.3	ug/L			04/22/17 02:26	5
Trichlorofluoromethane	5.0	U	5.0	4.4	ug/L			04/22/17 02:26	5
Vinyl chloride	71		5.0	4.5	ug/L			04/22/17 02:26	5
Xylenes, Total	10	U	10	3.3	ug/L			04/22/17 02:26	5

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		04/22/17 02:26	5
4-Bromofluorobenzene (Surr)	85		73 - 120		04/22/17 02:26	5
Dibromofluoromethane (Surr)	94		75 - 123		04/22/17 02:26	5
Toluene-d8 (Surr)	92		80 - 120		04/22/17 02:26	5

Client Sample ID: 4009-28

Lab Sample ID: 480-116018-16

Date Collected: 04/10/17 09:15

Matrix: Water

Date Received: 04/12/17 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			04/22/17 02:53	1
1,1,1,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 02:53	1
1,1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 02:53	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 02:53	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 02:53	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 02:53	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 02:53	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 02:53	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 02:53	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 02:53	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 02:53	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 02:53	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 02:53	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 02:53	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 02:53	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 02:53	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 02:53	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 02:53	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 02:53	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 02:53	1
Acetone	9.3	J	10	3.0	ug/L			04/22/17 02:53	1
Benzene	2.9		1.0	0.41	ug/L			04/22/17 02:53	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 02:53	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 02:53	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-28

Date Collected: 04/10/17 09:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 02:53	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 02:53	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 02:53	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 02:53	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 02:53	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 02:53	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 02:53	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 02:53	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 02:53	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 02:53	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 02:53	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 02:53	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 02:53	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 02:53	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 02:53	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 02:53	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 02:53	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 02:53	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 02:53	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 02:53	1
Toluene	1.8		1.0	0.51	ug/L			04/22/17 02:53	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 02:53	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 02:53	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 02:53	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 02:53	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 02:53	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 02:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		04/22/17 02:53	1
4-Bromofluorobenzene (Surr)	87		73 - 120		04/22/17 02:53	1
Dibromofluoromethane (Surr)	95		75 - 123		04/22/17 02:53	1
Toluene-d8 (Surr)	95		80 - 120		04/22/17 02:53	1

Client Sample ID: 4009-27S

Date Collected: 04/10/17 12:45

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-17

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	54		2.0	1.6	ug/L			04/21/17 19:15	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			04/21/17 19:15	2
1,1,2-Trichloro-1,2,2-trifluoroethane	3.0		2.0	0.62	ug/L			04/21/17 19:15	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			04/21/17 19:15	2
1,1-Dichloroethane	2.4		2.0	0.76	ug/L			04/21/17 19:15	2
1,1-Dichloroethene	5.1		2.0	0.58	ug/L			04/21/17 19:15	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			04/21/17 19:15	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			04/21/17 19:15	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-27S

Lab Sample ID: 480-116018-17

Date Collected: 04/10/17 12:45

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			04/21/17 19:15	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/21/17 19:15	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			04/21/17 19:15	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			04/21/17 19:15	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/21/17 19:15	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			04/21/17 19:15	2
2-Butanone (MEK)	20	U *	20	2.6	ug/L			04/21/17 19:15	2
2-Hexanone	10	U	10	2.5	ug/L			04/21/17 19:15	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			04/21/17 19:15	2
Acetone	20	U	20	6.0	ug/L			04/21/17 19:15	2
Benzene	2.0	U	2.0	0.82	ug/L			04/21/17 19:15	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			04/21/17 19:15	2
Bromoform	2.0	U	2.0	0.52	ug/L			04/21/17 19:15	2
Bromomethane	2.0	U	2.0	1.4	ug/L			04/21/17 19:15	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			04/21/17 19:15	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			04/21/17 19:15	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2
Chloroethane	2.0	U	2.0	0.64	ug/L			04/21/17 19:15	2
Chloroform	2.0	U	2.0	0.68	ug/L			04/21/17 19:15	2
Chloromethane	2.0	U	2.0	0.70	ug/L			04/21/17 19:15	2
cis-1,2-Dichloroethene	20		2.0	1.6	ug/L			04/21/17 19:15	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			04/21/17 19:15	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			04/21/17 19:15	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			04/21/17 19:15	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			04/21/17 19:15	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			04/21/17 19:15	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			04/21/17 19:15	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			04/21/17 19:15	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			04/21/17 19:15	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			04/21/17 19:15	2
Styrene	2.0	U	2.0	1.5	ug/L			04/21/17 19:15	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			04/21/17 19:15	2
Toluene	2.0	U	2.0	1.0	ug/L			04/21/17 19:15	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			04/21/17 19:15	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			04/21/17 19:15	2
Trichloroethene	22		2.0	0.92	ug/L			04/21/17 19:15	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			04/21/17 19:15	2
Vinyl chloride	2.0	U	2.0	1.8	ug/L			04/21/17 19:15	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/21/17 19:15	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/21/17 19:15	2
4-Bromofluorobenzene (Surr)	87		73 - 120		04/21/17 19:15	2
Dibromofluoromethane (Surr)	94		75 - 123		04/21/17 19:15	2
Toluene-d8 (Surr)	93		80 - 120		04/21/17 19:15	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-271

Lab Sample ID: 480-116018-18

Date Collected: 04/10/17 12:45

Matrix: Water

Date Received: 04/12/17 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			04/22/17 03:21	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 03:21	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 03:21	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 03:21	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 03:21	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 03:21	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 03:21	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 03:21	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 03:21	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 03:21	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 03:21	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 03:21	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 03:21	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 03:21	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 03:21	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 03:21	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 03:21	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 03:21	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 03:21	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 03:21	1
Acetone	5.3	J	10	3.0	ug/L			04/22/17 03:21	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 03:21	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 03:21	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 03:21	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 03:21	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 03:21	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 03:21	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 03:21	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 03:21	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 03:21	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 03:21	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 03:21	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 03:21	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 03:21	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 03:21	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 03:21	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 03:21	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 03:21	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 03:21	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 03:21	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 03:21	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 03:21	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 03:21	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 03:21	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 03:21	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 03:21	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 03:21	1
Trichloroethene	0.74	J	1.0	0.46	ug/L			04/22/17 03:21	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 03:21	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-271

Date Collected: 04/10/17 12:45

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-18

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			04/22/17 03:21	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 03:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120					04/22/17 03:21	1
4-Bromofluorobenzene (Surr)	87		73 - 120					04/22/17 03:21	1
Dibromofluoromethane (Surr)	99		75 - 123					04/22/17 03:21	1
Toluene-d8 (Surr)	94		80 - 120					04/22/17 03:21	1

Client Sample ID: 4009-27D

Date Collected: 04/10/17 12:45

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-19

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			04/21/17 20:09	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 20:09	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 20:09	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 20:09	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 20:09	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 20:09	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 20:09	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 20:09	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 20:09	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 20:09	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 20:09	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 20:09	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 20:09	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 20:09	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 20:09	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 20:09	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 20:09	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/21/17 20:09	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 20:09	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 20:09	1
Acetone	3.9	J	10	3.0	ug/L			04/21/17 20:09	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 20:09	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 20:09	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 20:09	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 20:09	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 20:09	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 20:09	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 20:09	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 20:09	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 20:09	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 20:09	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 20:09	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 20:09	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 20:09	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 20:09	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-27D

Date Collected: 04/10/17 12:45

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-19

Matrix: Water

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			04/21/17 20:09	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 20:09	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 20:09	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 20:09	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 20:09	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 20:09	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 20:09	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 20:09	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 20:09	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 20:09	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 20:09	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 20:09	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 20:09	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 20:09	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 20:09	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 20:09	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		04/21/17 20:09	1
4-Bromofluorobenzene (Surr)	85		73 - 120		04/21/17 20:09	1
Dibromofluoromethane (Surr)	97		75 - 123		04/21/17 20:09	1
Toluene-d8 (Surr)	94		80 - 120		04/21/17 20:09	1

Client Sample ID: 4009-30

Date Collected: 04/10/17 10:37

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-20

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			04/22/17 03:48	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 03:48	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 03:48	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 03:48	1
1,1-Dichloroethane	1.3		1.0	0.38	ug/L			04/22/17 03:48	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 03:48	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 03:48	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 03:48	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 03:48	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 03:48	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 03:48	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 03:48	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 03:48	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 03:48	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 03:48	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 03:48	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 03:48	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 03:48	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 03:48	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 03:48	1
Acetone	7.2	J	10	3.0	ug/L			04/22/17 03:48	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-30

Date Collected: 04/10/17 10:37

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-20

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			04/22/17 03:48	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 03:48	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 03:48	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 03:48	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 03:48	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 03:48	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 03:48	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 03:48	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 03:48	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 03:48	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 03:48	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 03:48	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 03:48	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 03:48	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 03:48	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 03:48	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 03:48	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 03:48	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 03:48	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 03:48	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 03:48	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 03:48	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 03:48	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 03:48	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 03:48	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 03:48	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 03:48	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 03:48	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 03:48	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 03:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/22/17 03:48	1
4-Bromofluorobenzene (Surr)	85		73 - 120		04/22/17 03:48	1
Dibromofluoromethane (Surr)	94		75 - 123		04/22/17 03:48	1
Toluene-d8 (Surr)	93		80 - 120		04/22/17 03:48	1

Client Sample ID: 4009-30A

Date Collected: 04/10/17 10:37

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-21

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			04/22/17 04:16	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 04:16	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 04:16	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 04:16	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 04:16	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 04:16	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 04:16	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-116018-21

Date Collected: 04/10/17 10:37

Matrix: Water

Date Received: 04/12/17 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			04/22/17 04:16	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 04:16	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 04:16	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 04:16	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 04:16	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 04:16	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 04:16	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 04:16	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 04:16	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 04:16	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 04:16	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 04:16	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 04:16	1
Acetone	5.6	J	10	3.0	ug/L			04/22/17 04:16	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 04:16	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 04:16	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 04:16	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 04:16	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 04:16	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 04:16	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 04:16	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 04:16	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 04:16	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 04:16	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 04:16	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 04:16	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 04:16	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 04:16	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 04:16	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 04:16	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 04:16	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 04:16	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 04:16	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 04:16	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 04:16	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 04:16	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 04:16	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 04:16	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 04:16	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 04:16	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 04:16	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 04:16	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 04:16	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 04:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		04/22/17 04:16	1
4-Bromofluorobenzene (Surr)	86		73 - 120		04/22/17 04:16	1
Dibromofluoromethane (Surr)	96		75 - 123		04/22/17 04:16	1
Toluene-d8 (Surr)	95		80 - 120		04/22/17 04:16	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-11A

Date Collected: 04/10/17 13:50

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-22

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	1.0	U	1.0	0.82	ug/L			04/22/17 04:43	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 04:43	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 04:43	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 04:43	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 04:43	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 04:43	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 04:43	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 04:43	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 04:43	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 04:43	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 04:43	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 04:43	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 04:43	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 04:43	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 04:43	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 04:43	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 04:43	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 04:43	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 04:43	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 04:43	1
Acetone	4.1	J	10	3.0	ug/L			04/22/17 04:43	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 04:43	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 04:43	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 04:43	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 04:43	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 04:43	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 04:43	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 04:43	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 04:43	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 04:43	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 04:43	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 04:43	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 04:43	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 04:43	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 04:43	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 04:43	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 04:43	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 04:43	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 04:43	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 04:43	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 04:43	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 04:43	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 04:43	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 04:43	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 04:43	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 04:43	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 04:43	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 04:43	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 04:43	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-11A

Date Collected: 04/10/17 13:50

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-22

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			04/22/17 04:43	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 04:43	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	102		77 - 120					04/22/17 04:43	1
4-Bromofluorobenzene (Surr)	85		73 - 120					04/22/17 04:43	1
Dibromofluoromethane (Surr)	97		75 - 123					04/22/17 04:43	1
Toluene-d8 (Surr)	95		80 - 120					04/22/17 04:43	1

Client Sample ID: DUP-1 20170410

Date Collected: 04/10/17 00:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-23

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			04/22/17 05:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 05:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 05:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 05:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 05:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 05:11	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 05:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 05:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 05:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 05:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 05:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 05:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 05:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 05:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 05:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 05:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 05:11	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 05:11	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 05:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 05:11	1
Acetone	6.4	J	10	3.0	ug/L			04/22/17 05:11	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 05:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 05:11	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 05:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 05:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 05:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 05:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 05:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 05:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 05:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 05:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 05:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 05:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 05:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 05:11	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: DUP-1 20170410

Lab Sample ID: 480-116018-23

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 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			04/22/17 05:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 05:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 05:11	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 05:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 05:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 05:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 05:11	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 05:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 05:11	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 05:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 05:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 05:11	1
Trichloroethene	0.75	J	1.0	0.46	ug/L			04/22/17 05:11	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 05:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 05:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/22/17 05:11	1
4-Bromofluorobenzene (Surr)	84		73 - 120		04/22/17 05:11	1
Dibromofluoromethane (Surr)	96		75 - 123		04/22/17 05:11	1
Toluene-d8 (Surr)	94		80 - 120		04/22/17 05:11	1

Client Sample ID: DUP-2 20170410

Lab Sample ID: 480-116018-24

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 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	110		2.0	1.6	ug/L			04/22/17 05:38	2
1,1,1,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 05:38	2
1,1,2-Trichloro-1,2,2-trifluoroethane	1.6	J	2.0	0.62	ug/L			04/22/17 05:38	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			04/22/17 05:38	2
1,1-Dichloroethane	17		2.0	0.76	ug/L			04/22/17 05:38	2
1,1-Dichloroethene	2.6		2.0	0.58	ug/L			04/22/17 05:38	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			04/22/17 05:38	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			04/22/17 05:38	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			04/22/17 05:38	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 05:38	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 05:38	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			04/22/17 05:38	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 05:38	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			04/22/17 05:38	2
2-Butanone (MEK)	20	U *	20	2.6	ug/L			04/22/17 05:38	2
2-Hexanone	10	U	10	2.5	ug/L			04/22/17 05:38	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			04/22/17 05:38	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: DUP-2 20170410

Lab Sample ID: 480-116018-24

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 01:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	20	U	20	6.0	ug/L			04/22/17 05:38	2
Benzene	3.3		2.0	0.82	ug/L			04/22/17 05:38	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			04/22/17 05:38	2
Bromoform	2.0	U	2.0	0.52	ug/L			04/22/17 05:38	2
Bromomethane	2.0	U	2.0	1.4	ug/L			04/22/17 05:38	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			04/22/17 05:38	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			04/22/17 05:38	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
Chloroethane	2.0	U	2.0	0.64	ug/L			04/22/17 05:38	2
Chloroform	2.0	U	2.0	0.68	ug/L			04/22/17 05:38	2
Chloromethane	2.0	U	2.0	0.70	ug/L			04/22/17 05:38	2
cis-1,2-Dichloroethene	11		2.0	1.6	ug/L			04/22/17 05:38	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			04/22/17 05:38	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			04/22/17 05:38	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			04/22/17 05:38	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			04/22/17 05:38	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			04/22/17 05:38	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			04/22/17 05:38	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			04/22/17 05:38	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			04/22/17 05:38	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			04/22/17 05:38	2
Styrene	2.0	U	2.0	1.5	ug/L			04/22/17 05:38	2
Tetrachloroethene	2.0	U	2.0	0.72	ug/L			04/22/17 05:38	2
Toluene	2.0	U	2.0	1.0	ug/L			04/22/17 05:38	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			04/22/17 05:38	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			04/22/17 05:38	2
Trichloroethene	3.3		2.0	0.92	ug/L			04/22/17 05:38	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			04/22/17 05:38	2
Vinyl chloride	5.7		2.0	1.8	ug/L			04/22/17 05:38	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/22/17 05:38	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		04/22/17 05:38	2
4-Bromofluorobenzene (Surr)	87		73 - 120		04/22/17 05:38	2
Dibromofluoromethane (Surr)	97		75 - 123		04/22/17 05:38	2
Toluene-d8 (Surr)	95		80 - 120		04/22/17 05:38	2

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-116018-25

Date Collected: 04/10/17 08:30

Matrix: Water

Date Received: 04/12/17 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			04/22/17 06:05	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 06:05	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 06:05	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 06:05	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 06:05	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 06:05	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-116018-25

Date Collected: 04/10/17 08:30

Matrix: Water

Date Received: 04/12/17 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			04/22/17 06:05	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 06:05	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 06:05	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 06:05	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 06:05	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 06:05	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 06:05	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 06:05	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 06:05	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 06:05	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 06:05	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 06:05	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 06:05	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 06:05	1
Acetone	7.7	J	10	3.0	ug/L			04/22/17 06:05	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 06:05	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 06:05	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 06:05	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 06:05	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 06:05	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 06:05	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 06:05	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 06:05	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 06:05	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 06:05	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 06:05	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 06:05	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 06:05	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 06:05	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 06:05	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 06:05	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 06:05	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 06:05	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 06:05	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 06:05	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 06:05	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 06:05	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 06:05	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 06:05	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 06:05	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 06:05	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 06:05	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 06:05	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 06:05	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 06:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		77 - 120		04/22/17 06:05	1
4-Bromofluorobenzene (Surr)	84		73 - 120		04/22/17 06:05	1
Dibromofluoromethane (Surr)	95		75 - 123		04/22/17 06:05	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: FIELD BLANK

Date Collected: 04/10/17 08:30

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-25

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	94		80 - 120		04/22/17 06:05	1

Client Sample ID: 4009-7

Date Collected: 04/10/17 14:40

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-26

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			04/22/17 06:33	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 06:33	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 06:33	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 06:33	1
1,1-Dichloroethane	1.1		1.0	0.38	ug/L			04/22/17 06:33	1
1,1-Dichloroethene	0.44	J	1.0	0.29	ug/L			04/22/17 06:33	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 06:33	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 06:33	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 06:33	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 06:33	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 06:33	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 06:33	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 06:33	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 06:33	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 06:33	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 06:33	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 06:33	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 06:33	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 06:33	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 06:33	1
Acetone	3.4	J	10	3.0	ug/L			04/22/17 06:33	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 06:33	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 06:33	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 06:33	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 06:33	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 06:33	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 06:33	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 06:33	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 06:33	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 06:33	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 06:33	1
cis-1,2-Dichloroethene	42		1.0	0.81	ug/L			04/22/17 06:33	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 06:33	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 06:33	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 06:33	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 06:33	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 06:33	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 06:33	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 06:33	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 06:33	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 06:33	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-7

Date Collected: 04/10/17 14:40

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-26

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			04/22/17 06:33	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 06:33	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 06:33	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 06:33	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 06:33	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 06:33	1
Trichloroethene	0.93	J	1.0	0.46	ug/L			04/22/17 06:33	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 06:33	1
Vinyl chloride	22		1.0	0.90	ug/L			04/22/17 06:33	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 06:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		04/22/17 06:33	1
4-Bromofluorobenzene (Surr)	87		73 - 120		04/22/17 06:33	1
Dibromofluoromethane (Surr)	99		75 - 123		04/22/17 06:33	1
Toluene-d8 (Surr)	95		80 - 120		04/22/17 06:33	1

Client Sample ID: 4009-8

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-27

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	560		10	8.2	ug/L			04/22/17 07:00	10
1,1,2,2-Tetrachloroethane	10	U	10	2.1	ug/L			04/22/17 07:00	10
1,1,2-Trichloro-1,2,2-trifluoroethane	5.1	J	10	3.1	ug/L			04/22/17 07:00	10
1,1,2-Trichloroethane	10	U	10	2.3	ug/L			04/22/17 07:00	10
1,1-Dichloroethane	51		10	3.8	ug/L			04/22/17 07:00	10
1,1-Dichloroethene	31		10	2.9	ug/L			04/22/17 07:00	10
1,2,3-Trimethylbenzene	10	U	10	2.6	ug/L			04/22/17 07:00	10
1,2,4-Trichlorobenzene	10	U	10	4.1	ug/L			04/22/17 07:00	10
1,2,4-Trimethylbenzene	10	U	10	7.5	ug/L			04/22/17 07:00	10
1,2-Dibromo-3-Chloropropane	10	U	10	3.9	ug/L			04/22/17 07:00	10
1,2-Dibromoethane	10	U	10	7.3	ug/L			04/22/17 07:00	10
1,2-Dichlorobenzene	10	U	10	7.9	ug/L			04/22/17 07:00	10
1,2-Dichloroethane	10	U	10	2.1	ug/L			04/22/17 07:00	10
1,2-Dichloropropane	10	U	10	7.2	ug/L			04/22/17 07:00	10
1,3,5-Trimethylbenzene	10	U	10	7.7	ug/L			04/22/17 07:00	10
1,3-Dichlorobenzene	10	U	10	7.8	ug/L			04/22/17 07:00	10
1,4-Dichlorobenzene	10	U	10	8.4	ug/L			04/22/17 07:00	10
2-Butanone (MEK)	100	U *	100	13	ug/L			04/22/17 07:00	10
2-Hexanone	50	U	50	12	ug/L			04/22/17 07:00	10
4-Methyl-2-pentanone (MIBK)	50	U	50	21	ug/L			04/22/17 07:00	10
Acetone	100	U	100	30	ug/L			04/22/17 07:00	10
Benzene	10	U	10	4.1	ug/L			04/22/17 07:00	10
Bromodichloromethane	10	U	10	3.9	ug/L			04/22/17 07:00	10
Bromoform	10	U	10	2.6	ug/L			04/22/17 07:00	10
Bromomethane	10	U	10	6.9	ug/L			04/22/17 07:00	10
Carbon disulfide	10	U	10	1.9	ug/L			04/22/17 07:00	10

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-8

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-27

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	10	U	10	2.7	ug/L			04/22/17 07:00	10
Chlorobenzene	10	U	10	7.5	ug/L			04/22/17 07:00	10
Chloroethane	7.8	J	10	3.2	ug/L			04/22/17 07:00	10
Chloroform	10	U	10	3.4	ug/L			04/22/17 07:00	10
Chloromethane	10	U	10	3.5	ug/L			04/22/17 07:00	10
cis-1,2-Dichloroethene	230		10	8.1	ug/L			04/22/17 07:00	10
cis-1,3-Dichloropropene	10	U	10	3.6	ug/L			04/22/17 07:00	10
Cyclohexane	10	U	10	1.8	ug/L			04/22/17 07:00	10
Dibromochloromethane	10	U	10	3.2	ug/L			04/22/17 07:00	10
Dichlorodifluoromethane	10	U	10	6.8	ug/L			04/22/17 07:00	10
Ethylbenzene	10	U	10	7.4	ug/L			04/22/17 07:00	10
Isopropylbenzene	10	U	10	7.9	ug/L			04/22/17 07:00	10
Methyl acetate	25	U	25	13	ug/L			04/22/17 07:00	10
Methyl tert-butyl ether	10	U	10	1.6	ug/L			04/22/17 07:00	10
Methylcyclohexane	10	U	10	1.6	ug/L			04/22/17 07:00	10
Methylene Chloride	10	U	10	4.4	ug/L			04/22/17 07:00	10
Styrene	10	U	10	7.3	ug/L			04/22/17 07:00	10
Tetrachloroethene	10	U	10	3.6	ug/L			04/22/17 07:00	10
Toluene	10	U	10	5.1	ug/L			04/22/17 07:00	10
trans-1,2-Dichloroethene	10	U	10	9.0	ug/L			04/22/17 07:00	10
trans-1,3-Dichloropropene	10	U	10	3.7	ug/L			04/22/17 07:00	10
Trichloroethene	150		10	4.6	ug/L			04/22/17 07:00	10
Trichlorofluoromethane	10	U	10	8.8	ug/L			04/22/17 07:00	10
Vinyl chloride	30		10	9.0	ug/L			04/22/17 07:00	10
Xylenes, Total	20	U	20	6.6	ug/L			04/22/17 07:00	10

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		04/22/17 07:00	10
4-Bromofluorobenzene (Surr)	84		73 - 120		04/22/17 07:00	10
Dibromofluoromethane (Surr)	97		75 - 123		04/22/17 07:00	10
Toluene-d8 (Surr)	93		80 - 120		04/22/17 07:00	10

Client Sample ID: 4009-26

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-28

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	100		2.0	1.6	ug/L			04/22/17 07:28	2
1,1,2,2-Tetrachloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 07:28	2
1,1,2-Trichloro-1,2,2-trifluoroethane	5.3		2.0	0.62	ug/L			04/22/17 07:28	2
1,1,2-Trichloroethane	2.0	U	2.0	0.46	ug/L			04/22/17 07:28	2
1,1-Dichloroethane	30		2.0	0.76	ug/L			04/22/17 07:28	2
1,1-Dichloroethene	3.8		2.0	0.58	ug/L			04/22/17 07:28	2
1,2,3-Trimethylbenzene	2.0	U	2.0	0.52	ug/L			04/22/17 07:28	2
1,2,4-Trichlorobenzene	2.0	U	2.0	0.82	ug/L			04/22/17 07:28	2
1,2,4-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2
1,2-Dibromo-3-Chloropropane	2.0	U	2.0	0.78	ug/L			04/22/17 07:28	2
1,2-Dibromoethane	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-26

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-28

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 07:28	2
1,2-Dichloroethane	2.0	U	2.0	0.42	ug/L			04/22/17 07:28	2
1,2-Dichloropropane	2.0	U	2.0	1.4	ug/L			04/22/17 07:28	2
1,3,5-Trimethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2
1,3-Dichlorobenzene	2.0	U	2.0	1.6	ug/L			04/22/17 07:28	2
1,4-Dichlorobenzene	2.0	U	2.0	1.7	ug/L			04/22/17 07:28	2
2-Butanone (MEK)	20	U *	20	2.6	ug/L			04/22/17 07:28	2
2-Hexanone	10	U	10	2.5	ug/L			04/22/17 07:28	2
4-Methyl-2-pentanone (MIBK)	10	U	10	4.2	ug/L			04/22/17 07:28	2
Acetone	7.4	J	20	6.0	ug/L			04/22/17 07:28	2
Benzene	2.0	U	2.0	0.82	ug/L			04/22/17 07:28	2
Bromodichloromethane	2.0	U	2.0	0.78	ug/L			04/22/17 07:28	2
Bromoform	2.0	U	2.0	0.52	ug/L			04/22/17 07:28	2
Bromomethane	2.0	U	2.0	1.4	ug/L			04/22/17 07:28	2
Carbon disulfide	2.0	U	2.0	0.38	ug/L			04/22/17 07:28	2
Carbon tetrachloride	2.0	U	2.0	0.54	ug/L			04/22/17 07:28	2
Chlorobenzene	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2
Chloroethane	3.6		2.0	0.64	ug/L			04/22/17 07:28	2
Chloroform	2.0	U	2.0	0.68	ug/L			04/22/17 07:28	2
Chloromethane	2.0	U	2.0	0.70	ug/L			04/22/17 07:28	2
cis-1,2-Dichloroethene	81		2.0	1.6	ug/L			04/22/17 07:28	2
cis-1,3-Dichloropropene	2.0	U	2.0	0.72	ug/L			04/22/17 07:28	2
Cyclohexane	2.0	U	2.0	0.36	ug/L			04/22/17 07:28	2
Dibromochloromethane	2.0	U	2.0	0.64	ug/L			04/22/17 07:28	2
Dichlorodifluoromethane	2.0	U	2.0	1.4	ug/L			04/22/17 07:28	2
Ethylbenzene	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2
Isopropylbenzene	2.0	U	2.0	1.6	ug/L			04/22/17 07:28	2
Methyl acetate	5.0	U	5.0	2.6	ug/L			04/22/17 07:28	2
Methyl tert-butyl ether	2.0	U	2.0	0.32	ug/L			04/22/17 07:28	2
Methylcyclohexane	2.0	U	2.0	0.32	ug/L			04/22/17 07:28	2
Methylene Chloride	2.0	U	2.0	0.88	ug/L			04/22/17 07:28	2
Styrene	2.0	U	2.0	1.5	ug/L			04/22/17 07:28	2
Tetrachloroethene	0.84	J	2.0	0.72	ug/L			04/22/17 07:28	2
Toluene	2.0	U	2.0	1.0	ug/L			04/22/17 07:28	2
trans-1,2-Dichloroethene	2.0	U	2.0	1.8	ug/L			04/22/17 07:28	2
trans-1,3-Dichloropropene	2.0	U	2.0	0.74	ug/L			04/22/17 07:28	2
Trichloroethene	45		2.0	0.92	ug/L			04/22/17 07:28	2
Trichlorofluoromethane	2.0	U	2.0	1.8	ug/L			04/22/17 07:28	2
Vinyl chloride	5.2		2.0	1.8	ug/L			04/22/17 07:28	2
Xylenes, Total	4.0	U	4.0	1.3	ug/L			04/22/17 07:28	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		04/22/17 07:28	2
4-Bromofluorobenzene (Surr)	83		73 - 120		04/22/17 07:28	2
Dibromofluoromethane (Surr)	98		75 - 123		04/22/17 07:28	2
Toluene-d8 (Surr)	94		80 - 120		04/22/17 07:28	2

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: TB-2017 0410

Lab Sample ID: 480-116018-29

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 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			04/22/17 07:55	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 07:55	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 07:55	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 07:55	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 07:55	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 07:55	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 07:55	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 07:55	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 07:55	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 07:55	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 07:55	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 07:55	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 07:55	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 07:55	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 07:55	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 07:55	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 07:55	1
2-Butanone (MEK)	10	U *	10	1.3	ug/L			04/22/17 07:55	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 07:55	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 07:55	1
Acetone	10	U	10	3.0	ug/L			04/22/17 07:55	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 07:55	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 07:55	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 07:55	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 07:55	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 07:55	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 07:55	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 07:55	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 07:55	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 07:55	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 07:55	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 07:55	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 07:55	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 07:55	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 07:55	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 07:55	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 07:55	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 07:55	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 07:55	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 07:55	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 07:55	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 07:55	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 07:55	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 07:55	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 07:55	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 07:55	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 07:55	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 07:55	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 07:55	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: TB-2017 0410

Lab Sample ID: 480-116018-29

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 01:00

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			04/22/17 07:55	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 07:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	103		77 - 120					04/22/17 07:55	1
4-Bromofluorobenzene (Surr)	83		73 - 120					04/22/17 07:55	1
Dibromofluoromethane (Surr)	97		75 - 123					04/22/17 07:55	1
Toluene-d8 (Surr)	95		80 - 120					04/22/17 07:55	1

Surrogate Summary

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

TestAmerica Job ID: 480-116018-1

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)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-116018-2	4009-9	98	88	97	94
480-116018-3	4009-10	100	87	97	94
480-116018-4	4009-11	98	89	101	95
480-116018-5	4009-12	101	88	98	94
480-116018-5 - DL	4009-12	94	88	94	93
480-116018-7	4009-15	100	86	98	92
480-116018-8	4009-16A	100	87	98	93
480-116018-9	4009-18	102	86	98	94
480-116018-10	4009-19	100	87	98	95
480-116018-11	4009-21	100	85	98	93
480-116018-12	4009-22	95	90	94	94
480-116018-13	4009-29S	97	88	95	95
480-116018-13 - DL	4009-29S	98	89	95	93
480-116018-14	4009-29I	99	86	93	95
480-116018-14 - DL	4009-29I	96	86	95	94
480-116018-14 MS	4009-29I	106	92	93	94
480-116018-14 MS - DL	4009-29I	107	93	96	95
480-116018-14 MSD	4009-29I	102	92	92	94
480-116018-14 MSD - DL	4009-29I	103	94	96	96
480-116018-15	4009-29D	99	88	97	94
480-116018-15 - DL	4009-29D	95	85	94	92
480-116018-16	4009-28	98	87	95	95
480-116018-17	4009-27S	99	87	94	93
480-116018-18	4009-27I	99	87	99	94
480-116018-19	4009-27D	98	85	97	94
480-116018-20	4009-30	99	85	94	93
480-116018-21	4009-30A	102	86	96	95
480-116018-22	4009-11A	102	85	97	95
480-116018-23	DUP-1 20170410	99	84	96	94
480-116018-24	DUP-2 20170410	101	87	97	95
480-116018-25	FIELD BLANK	95	84	95	94
480-116018-26	4009-7	101	87	99	95
480-116018-27	4009-8	97	84	97	93
480-116018-28	4009-26	100	83	98	94
480-116018-29	TB-2017 0410	103	83	97	95
LCS 480-353184/4	Lab Control Sample	105	92	97	95
LCS 480-353253/4	Lab Control Sample	103	93	92	96
LCS 480-353390/4	Lab Control Sample	99	92	91	94
MB 480-353184/6	Method Blank	99	91	98	94
MB 480-353253/6	Method Blank	97	90	94	94
MB 480-353390/6	Method Blank	97	89	95	94

Surrogate Legend

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

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: MB 480-353184/6

Matrix: Water

Analysis Batch: 353184

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			04/20/17 23:11	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/20/17 23:11	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/20/17 23:11	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/20/17 23:11	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/20/17 23:11	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/20/17 23:11	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/20/17 23:11	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/20/17 23:11	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/20/17 23:11	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/20/17 23:11	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/20/17 23:11	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/20/17 23:11	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/20/17 23:11	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/20/17 23:11	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/20/17 23:11	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/20/17 23:11	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/20/17 23:11	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/20/17 23:11	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/20/17 23:11	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/20/17 23:11	1
Acetone	10	U	10	3.0	ug/L			04/20/17 23:11	1
Benzene	1.0	U	1.0	0.41	ug/L			04/20/17 23:11	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/20/17 23:11	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/20/17 23:11	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/20/17 23:11	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/20/17 23:11	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/20/17 23:11	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/20/17 23:11	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/20/17 23:11	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/20/17 23:11	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/20/17 23:11	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/20/17 23:11	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/20/17 23:11	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/20/17 23:11	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/20/17 23:11	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/20/17 23:11	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/20/17 23:11	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/20/17 23:11	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/20/17 23:11	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/20/17 23:11	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/20/17 23:11	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/20/17 23:11	1
Styrene	1.0	U	1.0	0.73	ug/L			04/20/17 23:11	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/20/17 23:11	1
Toluene	1.0	U	1.0	0.51	ug/L			04/20/17 23:11	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/20/17 23:11	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/20/17 23:11	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/20/17 23:11	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: MB 480-353184/6

Matrix: Water

Analysis Batch: 353184

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			04/20/17 23:11	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/20/17 23:11	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/20/17 23:11	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		04/20/17 23:11	1
4-Bromofluorobenzene (Surr)	91		73 - 120		04/20/17 23:11	1
Dibromofluoromethane (Surr)	98		75 - 123		04/20/17 23:11	1
Toluene-d8 (Surr)	94		80 - 120		04/20/17 23:11	1

Lab Sample ID: LCS 480-353184/4

Matrix: Water

Analysis Batch: 353184

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	25.2		ug/L		101	73 - 126
1,1,2,2-Tetrachloroethane	25.0	22.7		ug/L		91	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	25.5		ug/L		102	61 - 148
1,1,2-Trichloroethane	25.0	23.0		ug/L		92	76 - 122
1,1-Dichloroethane	25.0	24.5		ug/L		98	77 - 120
1,1-Dichloroethene	25.0	24.3		ug/L		97	66 - 127
1,2,3-Trimethylbenzene	25.0	25.8		ug/L		103	78 - 120
1,2,4-Trichlorobenzene	25.0	21.6		ug/L		86	79 - 122
1,2,4-Trimethylbenzene	25.0	24.0		ug/L		96	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	21.2		ug/L		85	56 - 134
1,2-Dibromoethane	25.0	23.1		ug/L		92	77 - 120
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	23.1		ug/L		92	76 - 120
1,3,5-Trimethylbenzene	25.0	24.3		ug/L		97	77 - 121
1,3-Dichlorobenzene	25.0	23.3		ug/L		93	77 - 120
1,4-Dichlorobenzene	25.0	22.5		ug/L		90	80 - 120
2-Butanone (MEK)	125	208	*	ug/L		167	57 - 140
2-Hexanone	125	122		ug/L		98	65 - 127
4-Methyl-2-pentanone (MIBK)	125	117		ug/L		94	71 - 125
Acetone	125	127		ug/L		102	56 - 142
Benzene	25.0	23.3		ug/L		93	71 - 124
Bromodichloromethane	25.0	24.7		ug/L		99	80 - 122
Bromoform	25.0	21.9		ug/L		88	61 - 132
Bromomethane	25.0	24.8		ug/L		99	55 - 144
Carbon disulfide	25.0	22.3		ug/L		89	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		108	72 - 134
Chlorobenzene	25.0	23.1		ug/L		92	80 - 120
Chloroethane	25.0	31.1		ug/L		124	69 - 136
Chloroform	25.0	23.2		ug/L		93	73 - 127
Chloromethane	25.0	27.1		ug/L		109	68 - 124
cis-1,2-Dichloroethene	25.0	23.5		ug/L		94	74 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: LCS 480-353184/4

Matrix: Water

Analysis Batch: 353184

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	23.9		ug/L		96	74 - 124
Cyclohexane	25.0	23.3		ug/L		93	59 - 135
Dibromochloromethane	25.0	25.5		ug/L		102	75 - 125
Dichlorodifluoromethane	25.0	29.0		ug/L		116	59 - 135
Ethylbenzene	25.0	24.2		ug/L		97	77 - 123
Isopropylbenzene	25.0	23.9		ug/L		96	77 - 122
Methyl acetate	125	113		ug/L		91	74 - 133
Methyl tert-butyl ether	25.0	23.7		ug/L		95	77 - 120
Methylcyclohexane	25.0	24.6		ug/L		98	68 - 134
Methylene Chloride	25.0	22.1		ug/L		88	75 - 124
Styrene	25.0	22.8		ug/L		91	80 - 120
Tetrachloroethene	25.0	25.2		ug/L		101	74 - 122
Toluene	25.0	23.9		ug/L		95	80 - 122
trans-1,2-Dichloroethene	25.0	24.0		ug/L		96	73 - 127
trans-1,3-Dichloropropene	25.0	24.6		ug/L		98	80 - 120
Trichloroethene	25.0	24.1		ug/L		96	74 - 123
Trichlorofluoromethane	25.0	29.1		ug/L		116	62 - 150
Vinyl chloride	25.0	27.6		ug/L		111	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	105		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	97		75 - 123
Toluene-d8 (Surr)	95		80 - 120

Lab Sample ID: 480-116018-14 MS

Matrix: Water

Analysis Batch: 353184

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	750	E	25.0	781	E	ug/L		119	73 - 126
1,1,2,2-Tetrachloroethane	1.0	U	25.0	25.2		ug/L		101	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	12		25.0	33.5		ug/L		85	61 - 148
1,1,2-Trichloroethane	0.60	J	25.0	25.7		ug/L		100	76 - 122
1,1-Dichloroethane	89		25.0	113	E	ug/L		94	77 - 120
1,1-Dichloroethene	80		25.0	105	E	ug/L		97	66 - 127
1,2,3-Trimethylbenzene	1.0	U	25.0	24.7		ug/L		99	78 - 120
1,2,4-Trichlorobenzene	1.0	U	25.0	21.8		ug/L		87	79 - 122
1,2,4-Trimethylbenzene	1.0	U	25.0	24.6		ug/L		98	76 - 121
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	24.3		ug/L		97	56 - 134
1,2-Dibromoethane	1.0	U	25.0	24.9		ug/L		99	77 - 120
1,2-Dichlorobenzene	1.0	U	25.0	24.0		ug/L		96	80 - 124
1,2-Dichloroethane	1.0	U	25.0	26.0		ug/L		104	75 - 120
1,2-Dichloropropane	1.0	U	25.0	24.6		ug/L		99	76 - 120
1,3,5-Trimethylbenzene	1.0	U	25.0	24.7		ug/L		99	77 - 121
1,3-Dichlorobenzene	1.0	U	25.0	23.8		ug/L		95	77 - 120
1,4-Dichlorobenzene	1.0	U	25.0	23.5		ug/L		94	78 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MS

Matrix: Water

Analysis Batch: 353184

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
2-Butanone (MEK)	10	U *	125	199	*	ug/L		159	57 - 140
2-Hexanone	5.0	U	125	134		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	5.0	U	125	131		ug/L		105	71 - 125
Acetone	5.2	J	125	110		ug/L		84	56 - 142
Benzene	0.71	J	25.0	24.6		ug/L		96	71 - 124
Bromodichloromethane	1.0	U	25.0	26.3		ug/L		105	80 - 122
Bromoform	1.0	U	25.0	21.7		ug/L		87	61 - 132
Bromomethane	1.0	U	25.0	37.0	*	ug/L		148	55 - 144
Carbon disulfide	1.0	U	25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	1.0	U	25.0	27.5		ug/L		110	72 - 134
Chlorobenzene	1.1		25.0	25.4		ug/L		97	80 - 120
Chloroethane	3.9		25.0	39.9	*	ug/L		144	69 - 136
Chloroform	0.67	J	25.0	25.3		ug/L		99	73 - 127
Chloromethane	1.0	U	25.0	26.9		ug/L		108	68 - 124
cis-1,2-Dichloroethene	270	E	25.0	286	E *	ug/L		47	74 - 124
cis-1,3-Dichloropropene	1.0	U	25.0	23.2		ug/L		93	74 - 124
Cyclohexane	1.0	U	25.0	21.2		ug/L		85	59 - 135
Dibromochloromethane	1.0	U	25.0	26.3		ug/L		105	75 - 125
Dichlorodifluoromethane	1.0	U	25.0	22.8		ug/L		91	59 - 135
Ethylbenzene	1.0	U	25.0	25.0		ug/L		100	77 - 123
Isopropylbenzene	1.0	U	25.0	24.2		ug/L		97	77 - 122
Methyl acetate	2.5	U	125	115		ug/L		92	74 - 133
Methyl tert-butyl ether	1.0	U	25.0	23.9		ug/L		96	77 - 120
Methylcyclohexane	1.0	U	25.0	20.3		ug/L		81	68 - 134
Methylene Chloride	1.0	U	25.0	22.8		ug/L		91	75 - 124
Styrene	1.0	U	25.0	23.5		ug/L		94	80 - 120
Tetrachloroethene	1.4		25.0	25.5		ug/L		96	74 - 122
Toluene	1.0	U	25.0	24.4		ug/L		98	80 - 122
trans-1,2-Dichloroethene	1.2		25.0	25.3		ug/L		96	73 - 127
trans-1,3-Dichloropropene	1.0	U	25.0	24.4		ug/L		98	80 - 120
Trichloroethene	290	E	25.0	309	E	ug/L		90	74 - 123
Trichlorofluoromethane	1.0	U	25.0	29.2		ug/L		117	62 - 150
Vinyl chloride	110	E	25.0	128	E	ug/L		93	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	106		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	93		75 - 123
Toluene-d8 (Surr)	94		80 - 120

Lab Sample ID: 480-116018-14 MSD

Matrix: Water

Analysis Batch: 353184

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	750	E	25.0	737	E *	ug/L		-56	73 - 126	6	15
1,1,2,2-Tetrachloroethane	1.0	U	25.0	22.9		ug/L		91	76 - 120	10	15

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MSD

Matrix: Water

Analysis Batch: 353184

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
1,1,2-Trichloro-1,2,2-trifluoroethane	12		25.0	30.3		ug/L		72	61 - 148	10	20
1,1,2-Trichloroethane	0.60	J	25.0	23.5		ug/L		92	76 - 122	9	15
1,1-Dichloroethane	89		25.0	108	E *	ug/L		75	77 - 120	4	20
1,1-Dichloroethene	80		25.0	97.8		ug/L		70	66 - 127	7	16
1,2,3-Trimethylbenzene	1.0	U	25.0	27.1		ug/L		108	78 - 120	9	20
1,2,4-Trichlorobenzene	1.0	U	25.0	20.1		ug/L		80	79 - 122	8	20
1,2,4-Trimethylbenzene	1.0	U	25.0	22.2		ug/L		89	76 - 121	10	20
1,2-Dibromo-3-Chloropropane	1.0	U	25.0	21.7		ug/L		87	56 - 134	11	15
1,2-Dibromoethane	1.0	U	25.0	22.6		ug/L		90	77 - 120	10	15
1,2-Dichlorobenzene	1.0	U	25.0	21.2		ug/L		85	80 - 124	13	20
1,2-Dichloroethane	1.0	U	25.0	22.8		ug/L		91	75 - 120	13	20
1,2-Dichloropropane	1.0	U	25.0	21.1		ug/L		84	76 - 120	15	20
1,3,5-Trimethylbenzene	1.0	U	25.0	22.3		ug/L		89	77 - 121	10	20
1,3-Dichlorobenzene	1.0	U	25.0	21.4		ug/L		86	77 - 120	11	20
1,4-Dichlorobenzene	1.0	U	25.0	21.3		ug/L		85	78 - 124	10	20
2-Butanone (MEK)	10	U *	125	198	*	ug/L		158	57 - 140	0	20
2-Hexanone	5.0	U	125	123		ug/L		99	65 - 127	8	15
4-Methyl-2-pentanone (MIBK)	5.0	U	125	122		ug/L		98	71 - 125	7	35
Acetone	5.2	J	125	99.2		ug/L		75	56 - 142	11	15
Benzene	0.71	J	25.0	21.8		ug/L		85	71 - 124	12	13
Bromodichloromethane	1.0	U	25.0	22.7		ug/L		91	80 - 122	15	15
Bromoform	1.0	U	25.0	19.4		ug/L		78	61 - 132	11	15
Bromomethane	1.0	U	25.0	30.8	*	ug/L		123	55 - 144	18	15
Carbon disulfide	1.0	U	25.0	25.2		ug/L		101	59 - 134	12	15
Carbon tetrachloride	1.0	U	25.0	23.0	*	ug/L		92	72 - 134	18	15
Chlorobenzene	1.1		25.0	22.8		ug/L		87	80 - 120	11	25
Chloroethane	3.9		25.0	37.5		ug/L		134	69 - 136	6	15
Chloroform	0.67	J	25.0	21.8		ug/L		85	73 - 127	15	20
Chloromethane	1.0	U	25.0	27.6		ug/L		110	68 - 124	2	15
cis-1,2-Dichloroethene	270	E	25.0	278	E *	ug/L		14	74 - 124	3	15
cis-1,3-Dichloropropene	1.0	U	25.0	20.3		ug/L		81	74 - 124	13	15
Cyclohexane	1.0	U	25.0	18.9		ug/L		75	59 - 135	12	20
Dibromochloromethane	1.0	U	25.0	23.2		ug/L		93	75 - 125	12	15
Dichlorodifluoromethane	1.0	U	25.0	22.0		ug/L		88	59 - 135	4	20
Ethylbenzene	1.0	U	25.0	22.6		ug/L		90	77 - 123	10	15
Isopropylbenzene	1.0	U	25.0	21.9		ug/L		87	77 - 122	10	20
Methyl acetate	2.5	U	125	104		ug/L		83	74 - 133	11	20
Methyl tert-butyl ether	1.0	U	25.0	21.6		ug/L		86	77 - 120	10	37
Methylcyclohexane	1.0	U	25.0	18.0		ug/L		72	68 - 134	12	20
Methylene Chloride	1.0	U	25.0	19.7		ug/L		79	75 - 124	15	15
Styrene	1.0	U	25.0	21.4		ug/L		86	80 - 120	10	20
Tetrachloroethene	1.4		25.0	23.6		ug/L		89	74 - 122	8	20
Toluene	1.0	U	25.0	22.3		ug/L		89	80 - 122	9	15
trans-1,2-Dichloroethene	1.2		25.0	22.4		ug/L		85	73 - 127	12	20
trans-1,3-Dichloropropene	1.0	U	25.0	21.9		ug/L		88	80 - 120	11	15
Trichloroethene	290	E	25.0	294	E *	ug/L		31	74 - 123	5	16
Trichlorofluoromethane	1.0	U	25.0	27.9		ug/L		111	62 - 150	5	20

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MSD

Matrix: Water

Analysis Batch: 353184

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
Vinyl chloride	110	E	25.0	132	E	ug/L		106	65 - 133	2	15
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	102		77 - 120								
4-Bromofluorobenzene (Surr)	92		73 - 120								
Dibromofluoromethane (Surr)	92		75 - 123								
Toluene-d8 (Surr)	94		80 - 120								

Lab Sample ID: MB 480-353253/6

Matrix: Water

Analysis Batch: 353253

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			04/21/17 11:46	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 11:46	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/21/17 11:46	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/21/17 11:46	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/21/17 11:46	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/21/17 11:46	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/21/17 11:46	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/21/17 11:46	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/21/17 11:46	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/21/17 11:46	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/21/17 11:46	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/21/17 11:46	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/21/17 11:46	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/21/17 11:46	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/21/17 11:46	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/21/17 11:46	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/21/17 11:46	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/21/17 11:46	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/21/17 11:46	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/21/17 11:46	1
Acetone	10	U	10	3.0	ug/L			04/21/17 11:46	1
Benzene	1.0	U	1.0	0.41	ug/L			04/21/17 11:46	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/21/17 11:46	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/21/17 11:46	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/21/17 11:46	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/21/17 11:46	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/21/17 11:46	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/21/17 11:46	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/21/17 11:46	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/21/17 11:46	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/21/17 11:46	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/21/17 11:46	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/21/17 11:46	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/21/17 11:46	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/21/17 11:46	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: MB 480-353253/6

Matrix: Water

Analysis Batch: 353253

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			04/21/17 11:46	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/21/17 11:46	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/21/17 11:46	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/21/17 11:46	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/21/17 11:46	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/21/17 11:46	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/21/17 11:46	1
Styrene	1.0	U	1.0	0.73	ug/L			04/21/17 11:46	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/21/17 11:46	1
Toluene	1.0	U	1.0	0.51	ug/L			04/21/17 11:46	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/21/17 11:46	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/21/17 11:46	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/21/17 11:46	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/21/17 11:46	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/21/17 11:46	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/21/17 11:46	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		04/21/17 11:46	1
4-Bromofluorobenzene (Surr)	90		73 - 120		04/21/17 11:46	1
Dibromofluoromethane (Surr)	94		75 - 123		04/21/17 11:46	1
Toluene-d8 (Surr)	94		80 - 120		04/21/17 11:46	1

Lab Sample ID: LCS 480-353253/4

Matrix: Water

Analysis Batch: 353253

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	28.2		ug/L		113	73 - 126
1,1,1,2-Tetrachloroethane	25.0	26.6		ug/L		106	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.7		ug/L		119	61 - 148
1,1,2-Trichloroethane	25.0	26.3		ug/L		105	76 - 122
1,1-Dichloroethane	25.0	26.1		ug/L		104	77 - 120
1,1-Dichloroethene	25.0	27.6		ug/L		110	66 - 127
1,2,3-Trimethylbenzene	25.0	27.9		ug/L		112	78 - 120
1,2,4-Trichlorobenzene	25.0	24.9		ug/L		100	79 - 122
1,2,4-Trimethylbenzene	25.0	27.6		ug/L		111	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	26.0		ug/L		104	56 - 134
1,2-Dibromoethane	25.0	26.3		ug/L		105	77 - 120
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	25.2		ug/L		101	76 - 120
1,3,5-Trimethylbenzene	25.0	28.0		ug/L		112	77 - 121
1,3-Dichlorobenzene	25.0	26.3		ug/L		105	77 - 120
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	80 - 120
2-Butanone (MEK)	125	240	*	ug/L		192	57 - 140
2-Hexanone	125	149		ug/L		119	65 - 127

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: LCS 480-353253/4

Matrix: Water

Analysis Batch: 353253

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	140		ug/L		112	71 - 125
Acetone	125	155		ug/L		124	56 - 142
Benzene	25.0	25.8		ug/L		103	71 - 124
Bromodichloromethane	25.0	27.0		ug/L		108	80 - 122
Bromoform	25.0	25.2		ug/L		101	61 - 132
Bromomethane	25.0	27.9		ug/L		112	55 - 144
Carbon disulfide	25.0	28.8		ug/L		115	59 - 134
Carbon tetrachloride	25.0	29.9		ug/L		119	72 - 134
Chlorobenzene	25.0	26.2		ug/L		105	80 - 120
Chloroethane	25.0	30.9		ug/L		124	69 - 136
Chloroform	25.0	25.4		ug/L		102	73 - 127
Chloromethane	25.0	28.3		ug/L		113	68 - 124
cis-1,2-Dichloroethene	25.0	25.5		ug/L		102	74 - 124
cis-1,3-Dichloropropene	25.0	26.4		ug/L		106	74 - 124
Cyclohexane	25.0	27.1		ug/L		108	59 - 135
Dibromochloromethane	25.0	28.3		ug/L		113	75 - 125
Dichlorodifluoromethane	25.0	27.0		ug/L		108	59 - 135
Ethylbenzene	25.0	27.5		ug/L		110	77 - 123
Isopropylbenzene	25.0	27.6		ug/L		110	77 - 122
Methyl acetate	125	131		ug/L		105	74 - 133
Methyl tert-butyl ether	25.0	26.6		ug/L		106	77 - 120
Methylcyclohexane	25.0	28.7		ug/L		115	68 - 134
Methylene Chloride	25.0	24.2		ug/L		97	75 - 124
Styrene	25.0	25.9		ug/L		104	80 - 120
Tetrachloroethene	25.0	28.3		ug/L		113	74 - 122
Toluene	25.0	27.1		ug/L		108	80 - 122
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	73 - 127
trans-1,3-Dichloropropene	25.0	28.1		ug/L		112	80 - 120
Trichloroethene	25.0	26.3		ug/L		105	74 - 123
Trichlorofluoromethane	25.0	30.5		ug/L		122	62 - 150
Vinyl chloride	25.0	29.9		ug/L		120	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	93		73 - 120
Dibromofluoromethane (Surr)	92		75 - 123
Toluene-d8 (Surr)	96		80 - 120

Lab Sample ID: MB 480-353390/6

Matrix: Water

Analysis Batch: 353390

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			04/22/17 00:18	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 00:18	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			04/22/17 00:18	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			04/22/17 00:18	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			04/22/17 00:18	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: MB 480-353390/6

Matrix: Water

Analysis Batch: 353390

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			04/22/17 00:18	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			04/22/17 00:18	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			04/22/17 00:18	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			04/22/17 00:18	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			04/22/17 00:18	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			04/22/17 00:18	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			04/22/17 00:18	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			04/22/17 00:18	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			04/22/17 00:18	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			04/22/17 00:18	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			04/22/17 00:18	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			04/22/17 00:18	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			04/22/17 00:18	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			04/22/17 00:18	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			04/22/17 00:18	1
Acetone	10	U	10	3.0	ug/L			04/22/17 00:18	1
Benzene	1.0	U	1.0	0.41	ug/L			04/22/17 00:18	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			04/22/17 00:18	1
Bromoform	1.0	U	1.0	0.26	ug/L			04/22/17 00:18	1
Bromomethane	1.0	U	1.0	0.69	ug/L			04/22/17 00:18	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			04/22/17 00:18	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			04/22/17 00:18	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			04/22/17 00:18	1
Chloroethane	1.0	U	1.0	0.32	ug/L			04/22/17 00:18	1
Chloroform	1.0	U	1.0	0.34	ug/L			04/22/17 00:18	1
Chloromethane	1.0	U	1.0	0.35	ug/L			04/22/17 00:18	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			04/22/17 00:18	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			04/22/17 00:18	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			04/22/17 00:18	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			04/22/17 00:18	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			04/22/17 00:18	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			04/22/17 00:18	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			04/22/17 00:18	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			04/22/17 00:18	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			04/22/17 00:18	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			04/22/17 00:18	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			04/22/17 00:18	1
Styrene	1.0	U	1.0	0.73	ug/L			04/22/17 00:18	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			04/22/17 00:18	1
Toluene	1.0	U	1.0	0.51	ug/L			04/22/17 00:18	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			04/22/17 00:18	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			04/22/17 00:18	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			04/22/17 00:18	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			04/22/17 00:18	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			04/22/17 00:18	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			04/22/17 00:18	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: MB 480-353390/6

Matrix: Water

Analysis Batch: 353390

Client Sample ID: Method Blank

Prep Type: Total/NA

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	97		77 - 120		04/22/17 00:18	1
4-Bromofluorobenzene (Surr)	89		73 - 120		04/22/17 00:18	1
Dibromofluoromethane (Surr)	95		75 - 123		04/22/17 00:18	1
Toluene-d8 (Surr)	94		80 - 120		04/22/17 00:18	1

Lab Sample ID: LCS 480-353390/4

Matrix: Water

Analysis Batch: 353390

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	25.1		ug/L		100	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	26.8		ug/L		107	61 - 148
1,1,2-Trichloroethane	25.0	25.0		ug/L		100	76 - 122
1,1-Dichloroethane	25.0	24.7		ug/L		99	77 - 120
1,1-Dichloroethene	25.0	24.8		ug/L		99	66 - 127
1,2,3-Trimethylbenzene	25.0	25.9		ug/L		104	78 - 120
1,2,4-Trichlorobenzene	25.0	23.1		ug/L		92	79 - 122
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		102	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	24.4		ug/L		97	56 - 134
1,2-Dibromoethane	25.0	24.6		ug/L		99	77 - 120
1,2-Dichlorobenzene	25.0	24.1		ug/L		96	80 - 124
1,2-Dichloroethane	25.0	24.0		ug/L		96	75 - 120
1,2-Dichloropropane	25.0	23.7		ug/L		95	76 - 120
1,3,5-Trimethylbenzene	25.0	25.8		ug/L		103	77 - 121
1,3-Dichlorobenzene	25.0	24.4		ug/L		98	77 - 120
1,4-Dichlorobenzene	25.0	24.2		ug/L		97	80 - 120
2-Butanone (MEK)	125	222 *		ug/L		177	57 - 140
2-Hexanone	125	134		ug/L		108	65 - 127
4-Methyl-2-pentanone (MIBK)	125	129		ug/L		103	71 - 125
Acetone	125	136		ug/L		109	56 - 142
Benzene	25.0	24.2		ug/L		97	71 - 124
Bromodichloromethane	25.0	25.0		ug/L		100	80 - 122
Bromoform	25.0	22.7		ug/L		91	61 - 132
Bromomethane	25.0	27.4		ug/L		109	55 - 144
Carbon disulfide	25.0	25.6		ug/L		103	59 - 134
Carbon tetrachloride	25.0	26.9		ug/L		108	72 - 134
Chlorobenzene	25.0	24.0		ug/L		96	80 - 120
Chloroethane	25.0	30.2		ug/L		121	69 - 136
Chloroform	25.0	23.7		ug/L		95	73 - 127
Chloromethane	25.0	27.0		ug/L		108	68 - 124
cis-1,2-Dichloroethene	25.0	23.8		ug/L		95	74 - 124
cis-1,3-Dichloropropene	25.0	24.7		ug/L		99	74 - 124
Cyclohexane	25.0	25.2		ug/L		101	59 - 135
Dibromochloromethane	25.0	26.1		ug/L		104	75 - 125
Dichlorodifluoromethane	25.0	26.0		ug/L		104	59 - 135
Ethylbenzene	25.0	25.5		ug/L		102	77 - 123

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: LCS 480-353390/4

Matrix: Water

Analysis Batch: 353390

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	25.5		ug/L		102	77 - 122
Methyl acetate	125	122		ug/L		97	74 - 133
Methyl tert-butyl ether	25.0	24.1		ug/L		97	77 - 120
Methylcyclohexane	25.0	26.2		ug/L		105	68 - 134
Methylene Chloride	25.0	22.4		ug/L		90	75 - 124
Styrene	25.0	24.0		ug/L		96	80 - 120
Tetrachloroethene	25.0	26.8		ug/L		107	74 - 122
Toluene	25.0	24.9		ug/L		100	80 - 122
trans-1,2-Dichloroethene	25.0	24.8		ug/L		99	73 - 127
trans-1,3-Dichloropropene	25.0	25.7		ug/L		103	80 - 120
Trichloroethene	25.0	24.7		ug/L		99	74 - 123
Trichlorofluoromethane	25.0	28.5		ug/L		114	62 - 150
Vinyl chloride	25.0	27.2		ug/L		109	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	99		77 - 120
4-Bromofluorobenzene (Surr)	92		73 - 120
Dibromofluoromethane (Surr)	91		75 - 123
Toluene-d8 (Surr)	94		80 - 120

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

Lab Sample ID: 480-116018-14 MS

Matrix: Water

Analysis Batch: 353390

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 - DL	1000		500	1380		ug/L		76	73 - 126
1,1,2,2-Tetrachloroethane - DL	20	U	500	505		ug/L		101	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	15	J	500	583		ug/L		114	61 - 148
1,1,2-Trichloroethane - DL	20	U	500	497		ug/L		99	76 - 122
1,1-Dichloroethane - DL	100		500	621		ug/L		104	77 - 120
1,1-Dichloroethene - DL	85		500	586		ug/L		100	66 - 127
1,2,3-Trimethylbenzene - DL	20	U	500	524		ug/L		105	78 - 120
1,2,4-Trichlorobenzene - DL	20	U	500	445		ug/L		89	79 - 122
1,2,4-Trimethylbenzene - DL	20	U	500	512		ug/L		102	76 - 121
1,2-Dibromo-3-Chloropropane - DL	20	U	500	481		ug/L		96	56 - 134
1,2-Dibromoethane - DL	20	U	500	496		ug/L		99	77 - 120
1,2-Dichlorobenzene - DL	20	U	500	484		ug/L		97	80 - 124
1,2-Dichloroethane - DL	20	U	500	522		ug/L		104	75 - 120
1,2-Dichloropropane - DL	20	U	500	497		ug/L		99	76 - 120
1,3,5-Trimethylbenzene - DL	20	U	500	518		ug/L		104	77 - 121
1,3-Dichlorobenzene - DL	20	U	500	488		ug/L		98	77 - 120
1,4-Dichlorobenzene - DL	20	U	500	486		ug/L		97	78 - 124
2-Butanone (MEK) - DL	200	U *	2500	4290	*	ug/L		172	57 - 140
2-Hexanone - DL	100	U	2500	2650		ug/L		106	65 - 127

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MS

Matrix: Water

Analysis Batch: 353390

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
4-Methyl-2-pentanone (MIBK) - DL	100	U	2500	2630		ug/L		105	71 - 125
Acetone - DL	200	U	2500	2150		ug/L		86	56 - 142
Benzene - DL	20	U	500	505		ug/L		101	71 - 124
Bromodichloromethane - DL	20	U	500	530		ug/L		106	80 - 122
Bromoform - DL	20	U	500	440		ug/L		88	61 - 132
Bromomethane - DL	20	U	500	521		ug/L		104	55 - 144
Carbon disulfide - DL	20	U	500	554		ug/L		111	59 - 134
Carbon tetrachloride - DL	20	U	500	575		ug/L		115	72 - 134
Chlorobenzene - DL	20	U	500	493		ug/L		99	80 - 120
Chloroethane - DL	20	U	500	623		ug/L		125	69 - 136
Chloroform - DL	20	U	500	508		ug/L		102	73 - 127
Chloromethane - DL	20	U	500	530		ug/L		106	68 - 124
cis-1,2-Dichloroethene - DL	330		500	784		ug/L		90	74 - 124
cis-1,3-Dichloropropene - DL	20	U	500	496		ug/L		99	74 - 124
Cyclohexane - DL	20	U	500	559		ug/L		112	59 - 135
Dibromochloromethane - DL	20	U	500	537		ug/L		107	75 - 125
Dichlorodifluoromethane - DL	20	U	500	543		ug/L		109	59 - 135
Ethylbenzene - DL	20	U	500	519		ug/L		104	77 - 123
Isopropylbenzene - DL	20	U	500	511		ug/L		102	77 - 122
Methyl acetate - DL	50	U	2500	2560		ug/L		102	74 - 133
Methyl tert-butyl ether - DL	20	U	500	490		ug/L		98	77 - 120
Methylcyclohexane - DL	20	U	500	523		ug/L		105	68 - 134
Methylene Chloride - DL	20	U	500	471		ug/L		94	75 - 124
Styrene - DL	20	U	500	482		ug/L		96	80 - 120
Tetrachloroethene - DL	20	U	500	516		ug/L		103	74 - 122
Toluene - DL	20	U	500	509		ug/L		102	80 - 122
trans-1,2-Dichloroethene - DL	20	U	500	512		ug/L		102	73 - 127
trans-1,3-Dichloropropene - DL	20	U	500	515		ug/L		103	80 - 120
Trichloroethene - DL	340		500	815		ug/L		95	74 - 123
Trichlorofluoromethane - DL	20	U	500	596		ug/L		119	62 - 150
Vinyl chloride - DL	130		500	627		ug/L		100	65 - 133

Surrogate	MS %Recovery	MS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	107		77 - 120
4-Bromofluorobenzene (Surr) - DL	93		73 - 120
Dibromofluoromethane (Surr) - DL	96		75 - 123
Toluene-d8 (Surr) - DL	95		80 - 120

Lab Sample ID: 480-116018-14 MSD

Matrix: Water

Analysis Batch: 353390

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 - DL	1000		500	1300	*	ug/L		59	73 - 126	6	15
1,1,2,2-Tetrachloroethane - DL	20	U	500	510		ug/L		102	76 - 120	1	15

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MSD

Matrix: Water

Analysis Batch: 353390

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
1,1,2-Trichloro-1,2,2-trifluoroethane - DL	15	J	500	539		ug/L		105	61 - 148	8	20
1,1,2-Trichloroethane - DL	20	U	500	510		ug/L		102	76 - 122	3	15
1,1-Dichloroethane - DL	100		500	582		ug/L		96	77 - 120	6	20
1,1-Dichloroethene - DL	85		500	564		ug/L		96	66 - 127	4	16
1,2,3-Trimethylbenzene - DL	20	U	500	506		ug/L		101	78 - 120	4	20
1,2,4-Trichlorobenzene - DL	20	U	500	445		ug/L		89	79 - 122	0	20
1,2,4-Trimethylbenzene - DL	20	U	500	498		ug/L		100	76 - 121	3	20
1,2-Dibromo-3-Chloropropane - DL	20	U	500	475		ug/L		95	56 - 134	1	15
1,2-Dibromoethane - DL	20	U	500	500		ug/L		100	77 - 120	1	15
1,2-Dichlorobenzene - DL	20	U	500	479		ug/L		96	80 - 124	1	20
1,2-Dichloroethane - DL	20	U	500	504		ug/L		101	75 - 120	3	20
1,2-Dichloropropane - DL	20	U	500	487		ug/L		97	76 - 120	2	20
1,3,5-Trimethylbenzene - DL	20	U	500	502		ug/L		100	77 - 121	3	20
1,3-Dichlorobenzene - DL	20	U	500	486		ug/L		97	77 - 120	0	20
1,4-Dichlorobenzene - DL	20	U	500	470		ug/L		94	78 - 124	3	20
2-Butanone (MEK) - DL	200	U *	2500	4310 *		ug/L		173	57 - 140	0	20
2-Hexanone - DL	100	U	2500	2700		ug/L		108	65 - 127	2	15
4-Methyl-2-pentanone (MIBK) - DL	100	U	2500	2690		ug/L		107	71 - 125	2	35
Acetone - DL	200	U	2500	2170		ug/L		87	56 - 142	1	15
Benzene - DL	20	U	500	487		ug/L		97	71 - 124	4	13
Bromodichloromethane - DL	20	U	500	513		ug/L		103	80 - 122	3	15
Bromoform - DL	20	U	500	461		ug/L		92	61 - 132	5	15
Bromomethane - DL	20	U	500	550		ug/L		110	55 - 144	5	15
Carbon disulfide - DL	20	U	500	611		ug/L		122	59 - 134	10	15
Carbon tetrachloride - DL	20	U	500	539		ug/L		108	72 - 134	7	15
Chlorobenzene - DL	20	U	500	485		ug/L		97	80 - 120	2	25
Chloroethane - DL	20	U	500	602		ug/L		120	69 - 136	3	15
Chloroform - DL	20	U	500	482		ug/L		96	73 - 127	5	20
Chloromethane - DL	20	U	500	504		ug/L		101	68 - 124	5	15
cis-1,2-Dichloroethene - DL	330		500	761		ug/L		85	74 - 124	3	15
cis-1,3-Dichloropropene - DL	20	U	500	480		ug/L		96	74 - 124	3	15
Cyclohexane - DL	20	U	500	526		ug/L		105	59 - 135	6	20
Dibromochloromethane - DL	20	U	500	541		ug/L		108	75 - 125	1	15
Dichlorodifluoromethane - DL	20	U	500	473		ug/L		95	59 - 135	14	20
Ethylbenzene - DL	20	U	500	503		ug/L		101	77 - 123	3	15
Isopropylbenzene - DL	20	U	500	488		ug/L		98	77 - 122	5	20
Methyl acetate - DL	50	U	2500	2560		ug/L		102	74 - 133	0	20
Methyl tert-butyl ether - DL	20	U	500	505		ug/L		101	77 - 120	3	37
Methylcyclohexane - DL	20	U	500	485		ug/L		97	68 - 134	8	20
Methylene Chloride - DL	20	U	500	464		ug/L		93	75 - 124	2	15
Styrene - DL	20	U	500	477		ug/L		95	80 - 120	1	20
Tetrachloroethene - DL	20	U	500	489		ug/L		98	74 - 122	5	20
Toluene - DL	20	U	500	496		ug/L		99	80 - 122	3	15
trans-1,2-Dichloroethene - DL	20	U	500	492		ug/L		98	73 - 127	4	20
trans-1,3-Dichloropropene - DL	20	U	500	510		ug/L		102	80 - 120	1	15
Trichloroethene - DL	340		500	765		ug/L		85	74 - 123	6	16

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-116018-1

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

Lab Sample ID: 480-116018-14 MSD

Client Sample ID: 4009-291

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 353390

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Trichlorofluoromethane - DL	20	U	500	551		ug/L		110	62 - 150	8	20
Vinyl chloride - DL	130		500	591		ug/L		93	65 - 133	6	15

Surrogate	MSD %Recovery	MSD Qualifier	Limits
1,2-Dichloroethane-d4 (Surr) - DL	103		77 - 120
4-Bromofluorobenzene (Surr) - DL	94		73 - 120
Dibromofluoromethane (Surr) - DL	96		75 - 123
Toluene-d8 (Surr) - DL	96		80 - 120

QC Association Summary

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

TestAmerica Job ID: 480-116018-1

GC/MS VOA

Analysis Batch: 353184

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116018-2	4009-9	Total/NA	Water	8260C	
480-116018-3	4009-10	Total/NA	Water	8260C	
480-116018-4	4009-11	Total/NA	Water	8260C	
480-116018-5	4009-12	Total/NA	Water	8260C	
480-116018-7	4009-15	Total/NA	Water	8260C	
480-116018-8	4009-16A	Total/NA	Water	8260C	
480-116018-9	4009-18	Total/NA	Water	8260C	
480-116018-10	4009-19	Total/NA	Water	8260C	
480-116018-11	4009-21	Total/NA	Water	8260C	
480-116018-14	4009-29I	Total/NA	Water	8260C	
MB 480-353184/6	Method Blank	Total/NA	Water	8260C	
LCS 480-353184/4	Lab Control Sample	Total/NA	Water	8260C	
480-116018-14 MS	4009-29I	Total/NA	Water	8260C	
480-116018-14 MSD	4009-29I	Total/NA	Water	8260C	

Analysis Batch: 353253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116018-12	4009-22	Total/NA	Water	8260C	
480-116018-13	4009-29S	Total/NA	Water	8260C	
480-116018-15	4009-29D	Total/NA	Water	8260C	
480-116018-17	4009-27S	Total/NA	Water	8260C	
480-116018-19	4009-27D	Total/NA	Water	8260C	
MB 480-353253/6	Method Blank	Total/NA	Water	8260C	
LCS 480-353253/4	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 353390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-116018-5 - DL	4009-12	Total/NA	Water	8260C	
480-116018-13 - DL	4009-29S	Total/NA	Water	8260C	
480-116018-14 - DL	4009-29I	Total/NA	Water	8260C	
480-116018-15 - DL	4009-29D	Total/NA	Water	8260C	
480-116018-16	4009-28	Total/NA	Water	8260C	
480-116018-18	4009-27I	Total/NA	Water	8260C	
480-116018-20	4009-30	Total/NA	Water	8260C	
480-116018-21	4009-30A	Total/NA	Water	8260C	
480-116018-22	4009-11A	Total/NA	Water	8260C	
480-116018-23	DUP-1 20170410	Total/NA	Water	8260C	
480-116018-24	DUP-2 20170410	Total/NA	Water	8260C	
480-116018-25	FIELD BLANK	Total/NA	Water	8260C	
480-116018-26	4009-7	Total/NA	Water	8260C	
480-116018-27	4009-8	Total/NA	Water	8260C	
480-116018-28	4009-26	Total/NA	Water	8260C	
480-116018-29	TB-2017 0410	Total/NA	Water	8260C	
MB 480-353390/6	Method Blank	Total/NA	Water	8260C	
LCS 480-353390/4	Lab Control Sample	Total/NA	Water	8260C	
480-116018-14 MS - DL	4009-29I	Total/NA	Water	8260C	
480-116018-14 MSD - DL	4009-29I	Total/NA	Water	8260C	

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-9

Date Collected: 04/10/17 13:30

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/20/17 23:57	JAS	TAL BUF

Client Sample ID: 4009-10

Date Collected: 04/10/17 13:40

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 00:24	JAS	TAL BUF

Client Sample ID: 4009-11

Date Collected: 04/10/17 13:50

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 00:52	JAS	TAL BUF

Client Sample ID: 4009-12

Date Collected: 04/10/17 12:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 01:19	JAS	TAL BUF
Total/NA	Analysis	8260C	DL	2	353390	04/22/17 01:04	JAS	TAL BUF

Client Sample ID: 4009-15

Date Collected: 04/10/17 11:47

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 01:47	JAS	TAL BUF

Client Sample ID: 4009-16A

Date Collected: 04/10/17 10:03

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 02:14	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-18

Date Collected: 04/10/17 11:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 02:42	JAS	TAL BUF

Client Sample ID: 4009-19

Date Collected: 04/10/17 11:15

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 03:09	JAS	TAL BUF

Client Sample ID: 4009-21

Date Collected: 04/10/17 11:05

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 03:37	JAS	TAL BUF

Client Sample ID: 4009-22

Date Collected: 04/10/17 09:26

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353253	04/21/17 16:59	RRS	TAL BUF

Client Sample ID: 4009-29S

Date Collected: 04/10/17 12:25

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353253	04/21/17 17:26	RRS	TAL BUF
Total/NA	Analysis	8260C	DL	10	353390	04/22/17 01:31	JAS	TAL BUF

Client Sample ID: 4009-29I

Date Collected: 04/10/17 12:25

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353184	04/21/17 04:04	JAS	TAL BUF
Total/NA	Analysis	8260C	DL	20	353390	04/22/17 01:58	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-29D

Lab Sample ID: 480-116018-15

Date Collected: 04/10/17 12:25

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353253	04/21/17 18:20	RRS	TAL BUF
Total/NA	Analysis	8260C	DL	5	353390	04/22/17 02:26	JAS	TAL BUF

Client Sample ID: 4009-28

Lab Sample ID: 480-116018-16

Date Collected: 04/10/17 09:15

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 02:53	JAS	TAL BUF

Client Sample ID: 4009-27S

Lab Sample ID: 480-116018-17

Date Collected: 04/10/17 12:45

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	353253	04/21/17 19:15	RRS	TAL BUF

Client Sample ID: 4009-27I

Lab Sample ID: 480-116018-18

Date Collected: 04/10/17 12:45

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 03:21	JAS	TAL BUF

Client Sample ID: 4009-27D

Lab Sample ID: 480-116018-19

Date Collected: 04/10/17 12:45

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353253	04/21/17 20:09	RRS	TAL BUF

Client Sample ID: 4009-30

Lab Sample ID: 480-116018-20

Date Collected: 04/10/17 10:37

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 03:48	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-30A

Lab Sample ID: 480-116018-21

Date Collected: 04/10/17 10:37

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 04:16	JAS	TAL BUF

Client Sample ID: 4009-11A

Lab Sample ID: 480-116018-22

Date Collected: 04/10/17 13:50

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 04:43	JAS	TAL BUF

Client Sample ID: DUP-1 20170410

Lab Sample ID: 480-116018-23

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 05:11	JAS	TAL BUF

Client Sample ID: DUP-2 20170410

Lab Sample ID: 480-116018-24

Date Collected: 04/10/17 00:00

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	353390	04/22/17 05:38	JAS	TAL BUF

Client Sample ID: FIELD BLANK

Lab Sample ID: 480-116018-25

Date Collected: 04/10/17 08:30

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 06:05	JAS	TAL BUF

Client Sample ID: 4009-7

Lab Sample ID: 480-116018-26

Date Collected: 04/10/17 14:40

Matrix: Water

Date Received: 04/12/17 01:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 06:33	JAS	TAL BUF

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-116018-1

Client Sample ID: 4009-8

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-27

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		10	353390	04/22/17 07:00	JAS	TAL BUF

Client Sample ID: 4009-26

Date Collected: 04/10/17 14:10

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-28

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	353390	04/22/17 07:28	JAS	TAL BUF

Client Sample ID: TB-2017 0410

Date Collected: 04/10/17 00:00

Date Received: 04/12/17 01:00

Lab Sample ID: 480-116018-29

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	353390	04/22/17 07:55	JAS	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: 480-116018-1

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	03-31-18

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

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: 480-116018-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: 480-116018-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-116018-2	4009-9	Water	04/10/17 13:30	04/12/17 01:00
480-116018-3	4009-10	Water	04/10/17 13:40	04/12/17 01:00
480-116018-4	4009-11	Water	04/10/17 13:50	04/12/17 01:00
480-116018-5	4009-12	Water	04/10/17 12:15	04/12/17 01:00
480-116018-7	4009-15	Water	04/10/17 11:47	04/12/17 01:00
480-116018-8	4009-16A	Water	04/10/17 10:03	04/12/17 01:00
480-116018-9	4009-18	Water	04/10/17 11:00	04/12/17 01:00
480-116018-10	4009-19	Water	04/10/17 11:15	04/12/17 01:00
480-116018-11	4009-21	Water	04/10/17 11:05	04/12/17 01:00
480-116018-12	4009-22	Water	04/10/17 09:26	04/12/17 01:00
480-116018-13	4009-29S	Water	04/10/17 12:25	04/12/17 01:00
480-116018-14	4009-29I	Water	04/10/17 12:25	04/12/17 01:00
480-116018-15	4009-29D	Water	04/10/17 12:25	04/12/17 01:00
480-116018-16	4009-28	Water	04/10/17 09:15	04/12/17 01:00
480-116018-17	4009-27S	Water	04/10/17 12:45	04/12/17 01:00
480-116018-18	4009-27I	Water	04/10/17 12:45	04/12/17 01:00
480-116018-19	4009-27D	Water	04/10/17 12:45	04/12/17 01:00
480-116018-20	4009-30	Water	04/10/17 10:37	04/12/17 01:00
480-116018-21	4009-30A	Water	04/10/17 10:37	04/12/17 01:00
480-116018-22	4009-11A	Water	04/10/17 13:50	04/12/17 01:00
480-116018-23	DUP-1 20170410	Water	04/10/17 00:00	04/12/17 01:00
480-116018-24	DUP-2 20170410	Water	04/10/17 00:00	04/12/17 01:00
480-116018-25	FIELD BLANK	Water	04/10/17 08:30	04/12/17 01:00
480-116018-26	4009-7	Water	04/10/17 14:40	04/12/17 01:00
480-116018-27	4009-8	Water	04/10/17 14:10	04/12/17 01:00
480-116018-28	4009-26	Water	04/10/17 14:10	04/12/17 01:00
480-116018-29	TB-2017 0410	Water	04/10/17 00:00	04/12/17 01:00

TestAmerica Buffalo

10 Hazelwood
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>A. Thomas</u>		Lab PM: <u>Stone, Judy L</u>		Carrier Tracking No(s):		COC No: <u>480-95685-22802.1</u>			
Client Contact: <u>Ms. Katie Bidwell</u>		Phone: <u>518-250-7311</u>		E-Mail: <u>judy.stone@testamericainc.com</u>				Page: <u>Page 1 of 4</u>			
Company: <u>ARCADIS U.S. Inc</u>				Analysis Requested							
Address: <u>855 Route 146 Suite 210</u>				Due Date Requested: TAT Requested (days): <u>Standard</u> Preservation Codes: A - HCL M - Hexane B - NaOH N - None C - Zn Acetate O - AsNaO2 D - Nitric Acid P - Na2O4S E - NaHSO4 Q - Na2SO3 F - MeOH R - Na2S2O3 G - Amchlor S - H2SO4 H - Ascorbic Acid T - TSP Dodecahydrate I - Ice U - Acetone J - DI Water V - MCAA K - EDTA W - pH 4-5 L - EDA Z - other (specify)							
City: <u>Clifton Park</u>											
State, Zip: <u>NY, 12065</u>											
Phone: <u>518-250-7300(Tel)</u>											
Email: <u>katie.bidwell@arcadis-us.com</u>											
Project Name: <u>NYSDEC-Standby VESTAL</u>				Job #:							
Site:				SSOW#:							
Sample Identification		Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform: MS/MSD (Yes or No)	8260C - (MOD) TCL list OLM04.2	TMBs	Total Number of containers	Special Instructions/Note:
				Preservation Code:							
<u>Well 1-2A</u>					Water						
<u>Well 1-3</u>					Water						
<u>Well 1-1</u>		<u>4/10/17</u>	<u>0840</u>	<u>G</u>	Water	<u>NN</u>	<u>3</u>			<u>3</u>	
<u>4009-9</u>		<u>4/10/17</u>	<u>1336</u>	<u>G</u>	Water	<u>NN</u>	<u>3</u>				
<u>4009-10</u>			<u>1340</u>		Water						
<u>4009-11</u>			<u>1350</u>		Water						
<u>4009-12</u>			<u>1215</u>		Water						
<u>4009-13</u>			<u>1355</u>		Water						
<u>4009-13A</u>			<u>1355</u>		Water						
<u>4009-14</u> <u>MS/MSD</u>			<u>0934</u>		Water	<u>Y</u>	<u>7</u>			<u>7 MS/MSD</u>	
<u>4009-15</u>			<u>1147</u>		Water	<u>N</u>	<u>3</u>			<u>3</u>	
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>[Signature]</u>				Date/Time: <u>4/10/17 1700</u>		Company: <u>ARCADIS</u>		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Relinquished by:				Date/Time:		Company:		Received by:		Date/Time:	
Custody Seals Intact: ☐ Yes ☐ No				Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:					

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

5/30/2017

Chain of Custody Record

[illegible]

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING



Client Information		Sampler: <u>Athomas</u>		Lab PM: <u>Stone, Judy L</u>	
Client Contact Ms. Katie Bidwell		Phone: <u>518-250-7311</u>		E-Mail: <u>judy.stone@testamericainc.com</u>	
Company: ARCADIS U.S. Inc		Due Date Requested:		COC No: 480-95685-22802.1	
Address: 855 Route 146 Suite 210		TAT Requested (days): <u>Standard</u>		Page: Page 1 of 4	
City: Clifton Park		PO #: Project 00266401.0000		Job #:	
State, Zip: NY, 12065		WO #: Contract D007618		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 Other:	
Phone: 518-250-7300(Tel)		Project #: 48005198		Total Number of Containers	
Email: katie.bidwell@arcadis-us.com		SSOW#:		Special Instructions/Note:	
Project Name: NYSEC-Standby VESTAL					
Site:					
Sample Identification		Sample Date		Sample Time	
Well 1-2A				Matrix (Water, Seawater, Snowmelt, Onwater, etc.)	
Well 1-2				Sample Type (C=Comp, G=Grab)	
Well 1-1		4/10/17		Preservation Code	
4009-9		1336		Field Filtered Sample (Yes or No)	
4009-10		1340		8260C - (MOD) TCL list OLM04.2	
4009-11		1350		TAMMMSD (Yes or No)	
4009-12		1215			
4009-13		1147			
4009-14		0934			
4009-15		1147			
MS/MSD					
Possible Hazard Identification					
☐ Non-Hazard		☐ Flammable		☐ Skin Irritant	
☐ Polson-B		☐ Unknown		☐ Radiological	
Deliverable Requested: I, II, III, IV, Other (specify)					
Empty Kit Relinquished by:		Date:		Time:	
Relinquished by: <u>David Bubish</u>		4/10/17		1700	
Relinquished by: <u>David Bubish</u>		4/11/17		1800	
Relinquished by:					
Custody Seals Intact		Custody Seal No.:			
Δ Yes Δ No					

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s):		OOC No: 480-95685-22802.2	
Client Contact: Ms. Katie Bidwell		Phone: 518-250-7311		E-Mail: judy.stone@testamericainc.com		Page: Page 2 of 4	
Company: ARCADIS U.S. Inc		Due Date Requested:		Analysis Requested		Job #:	
Address: 855 Route 146 Suite 210		TAT Requested (days):		Preservation Codes:		Total Number of Containers	
City: Clifton Park		Standard		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		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)	
State, Zip: NY, 12065		PO #:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
Phone: 518-250-7300(Tel)		Project 00266401.0000		860C - (MOD) TCL list OLM04.2		860C - (MOD) TCL list OLM04.2	
Email: katie.bidwell@arcadis-us.com		WO #:		Sample Date		Sample Time	
Project Name: NYSDEC-Standby VESTAL		Contract D007618		Sample Type (C=Comp, G=grab)		Matrix (W=water, S=solid, O=soil, A=air)	
Site:		48005198		Preservation Code		Special Instructions/Note:	
SSOW#:		4110170957		C		Water	
Sample Identification		4809-16		1603		Water	
4009-16A		1100		1105		Water	
4009-18		1115		1105		Water	
4009-19		0926		1225		Water	
4009-21		1225		1225		Water	
4009-22		1225		1225		Water	
4009-27S		0915		1245		Water	
4009-27I		↓		↓		↓	
4009-27D		↓		↓		↓	
4009-28		↓		↓		↓	
4009-29S		↓		↓		↓	
Possible Hazard Identification		MS/MSD		MS/MSD		MS/MSD	
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological		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:	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by: [Signature]		Date/Time: 4/10/17		Date/Time: 4/10/17		Company: Arcadis	
Relinquished by: David B. Bish		Date/Time: 4/11/17		Date/Time: 4/11/17		Company: TA	
Relinquished by:		Date/Time:		Date/Time:		Company:	
Custody Seals Intact: Δ Yes Δ No		Custody Seal No.: 04, 08		Cooler Temperature(s) °C and Other Remarks:		#1	

TestAmerica Buffalo
10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

480501-Albany

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Lab PM: Stone, Judy L		Carrier Tracking No(s):		COC No: 480-95685-22802.3	
Client Contact: Ms. Katie Bidwell		Phone: 518-250-7311		E-Mail: judy.stone@testamericainc.com		Page 3 of 4	
Company: ARCADIS U.S. Inc.		Address: 855 Route 146 Suite 210		City: Clifton Park		State, Zip: NY, 12065	
Phone: 518-250-7300 (Tel)		PO #: Project 00266401.0000		WO #: Contract D007618		Project #: 48005198	
Email: katie.bidwell@arcadis-us.com		SSOW#:		Due Date Requested:		TAT Requested (days):	
Project Name: NYSEDEC-Standby VESTAL		Site:		Sample Date		Sample Time	
Sample Identification		Sample Type (C=Comp, G=Grab)		Matrix (W=Water, S=Solid, O=Wastewater, A=Air)		Preservation Code	
4009-291		G		Water		NN3	
4009-29D		1245		Water		1245	
4009-30		1037		Water		1037	
4009-30A		1037		Water		1037	
4009-11A		1350		Water		1350	
DUP-1 2017 0410		-		Water		-	
DUP-2 2017 0410		-		Water		-	
MS		-		Water		-	
MS9		-		Water		-	
MS		-		Water		-	
MSD		-		Water		-	
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Deliverable Requested: I, II, III, IV, Other (specify)		Empty Kit Relinquished by:		Special Instructions/QC Requirements:		Method of Shipment	
Relinquished by: [Signature]		Date: 4/10/17		Time: 1700		Company: Arcadis	
Relinquished by: Dana I. Buback		Date: 4/11/17		Time: 1800		Company: TA	
Relinquished by:		Date:		Time:		Company:	
Custody Seal No.: Δ Yes Δ No		Custody Seal No.: 04, 0.8		Cooler Temperature(s) °C and Other Remarks:		#1	

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-116018-1

Login Number: 116018

List Source: TestAmerica Buffalo

List Number: 1

Creator: Williams, Christopher S

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	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Tel: (716)691-2600

TestAmerica Job ID: 480-117114-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

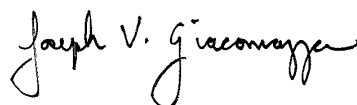
ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Jeremy Wyckoff



Authorized for release by:

5/9/2017 12:58:36 PM

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.

Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
Surrogate Summary	14
QC Sample Results	15
QC Association Summary	18
Lab Chronicle	19
Certification Summary	20
Method Summary	21
Sample Summary	22
Chain of Custody	23
Receipt Checklists	26



Definitions/Glossary

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

TestAmerica Job ID: 480-117114-1

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.
*	Surrogate is outside acceptance 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: 480-117114-1

Job ID: 480-117114-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-117114-1

Receipt

The samples were received on 4/28/2017 9:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.7° C and 3.0° C.

Receipt Exceptions

The client revised the following sample IDs and provided a revised chain of custody on 5/1/17. 4009-13 (480-117114-1) and 4009-13A (480-117114-2)

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-356083 recovered above the upper control limit for Dibromochloromethane and Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: 4009-13 (480-117114-1), 4009-13A (480-117114-2), TRIP BLANK 42617 (480-117114-3), WELL 1-2A (480-117114-4), WELL 1-3 (480-117114-5) and TRIP BLANK 042617 (480-117114-6).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-356083 recovered outside control limits for the following analytes: Bromoform and Dibromochloromethane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: 4009-13 (480-117114-1), 4009-13A (480-117114-2), TRIP BLANK 42617 (480-117114-3), WELL 1-2A (480-117114-4), WELL 1-3 (480-117114-5) and TRIP BLANK 042617 (480-117114-6).

Method(s) 8260C: Toluene-d8 surrogate recovery for the following samples outside control limits: 4009-13 (480-117114-1), 4009-13A (480-117114-2), TRIP BLANK 42617 (480-117114-3) and WELL 1-2A (480-117114-4). All other surrogates were within acceptable limits for the samples and associated QC. Evidence of matrix interference is suspected and re-analysis was not performed due to hold time limitations.

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: 480-117114-1

Client Sample ID: 4009-13

Lab Sample ID: 480-117114-1

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

Client Sample ID: 4009-13A

Lab Sample ID: 480-117114-2

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

Client Sample ID: TRIP BLANK 42617

Lab Sample ID: 480-117114-3

No Detections.

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-117114-4

No Detections.

Client Sample ID: WELL 1-3

Lab Sample ID: 480-117114-5

No Detections.

Client Sample ID: TRIP BLANK 042617

Lab Sample ID: 480-117114-6

No Detections.

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: 480-117114-1

Client Sample ID: 4009-13

Lab Sample ID: 480-117114-1

Date Collected: 04/26/17 10:35

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:02	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 02:02	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 02:02	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 02:02	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 02:02	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 02:02	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/08/17 02:02	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:02	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 02:02	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 02:02	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:02	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:02	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 02:02	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 02:02	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 02:02	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 02:02	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 02:02	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 02:02	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 02:02	1
Acetone	10	U	10	3.0	ug/L			05/08/17 02:02	1
Benzene	0.41	J	1.0	0.41	ug/L			05/08/17 02:02	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 02:02	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 02:02	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 02:02	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 02:02	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 02:02	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:02	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 02:02	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 02:02	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 02:02	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 02:02	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 02:02	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 02:02	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 02:02	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/08/17 02:02	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 02:02	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:02	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 02:02	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 02:02	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 02:02	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 02:02	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 02:02	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 02:02	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 02:02	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 02:02	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 02:02	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 02:02	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 02:02	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: 4009-13

Lab Sample ID: 480-117114-1

Date Collected: 04/26/17 10:35

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:02	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 02:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		77 - 120					05/08/17 02:02	1
4-Bromofluorobenzene (Surr)	98		73 - 120					05/08/17 02:02	1
Dibromofluoromethane (Surr)	90		75 - 123					05/08/17 02:02	1
Toluene-d8 (Surr)	79	*	80 - 120					05/08/17 02:02	1

Client Sample ID: 4009-13A

Lab Sample ID: 480-117114-2

Date Collected: 04/26/17 10:35

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:25	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:25	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 02:25	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 02:25	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 02:25	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 02:25	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 02:25	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/08/17 02:25	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:25	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 02:25	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 02:25	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:25	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:25	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 02:25	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 02:25	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 02:25	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 02:25	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 02:25	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 02:25	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 02:25	1
Acetone	3.0	J	10	3.0	ug/L			05/08/17 02:25	1
Benzene	1.0	U	1.0	0.41	ug/L			05/08/17 02:25	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 02:25	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 02:25	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 02:25	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 02:25	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 02:25	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:25	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 02:25	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 02:25	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 02:25	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 02:25	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 02:25	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 02:25	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 02:25	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: 4009-13A

Lab Sample ID: 480-117114-2

Date Collected: 04/26/17 10:35

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:25	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 02:25	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:25	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 02:25	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 02:25	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 02:25	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 02:25	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 02:25	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 02:25	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 02:25	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 02:25	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 02:25	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 02:25	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 02:25	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/08/17 02:25	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 02:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		77 - 120		05/08/17 02:25	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/08/17 02:25	1
Dibromofluoromethane (Surr)	90		75 - 123		05/08/17 02:25	1
Toluene-d8 (Surr)	78	*	80 - 120		05/08/17 02:25	1

Client Sample ID: TRIP BLANK 42617

Lab Sample ID: 480-117114-3

Date Collected: 04/26/17 00:00

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:49	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 02:49	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 02:49	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 02:49	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 02:49	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 02:49	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/08/17 02:49	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:49	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 02:49	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 02:49	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:49	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 02:49	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 02:49	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 02:49	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 02:49	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 02:49	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 02:49	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 02:49	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 02:49	1
Acetone	10	U	10	3.0	ug/L			05/08/17 02:49	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: TRIP BLANK 42617

Lab Sample ID: 480-117114-3

Date Collected: 04/26/17 00:00

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 02:49	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 02:49	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 02:49	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 02:49	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 02:49	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 02:49	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 02:49	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 02:49	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 02:49	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 02:49	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 02:49	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 02:49	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 02:49	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 02:49	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/08/17 02:49	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 02:49	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 02:49	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 02:49	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 02:49	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 02:49	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 02:49	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 02:49	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 02:49	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 02:49	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 02:49	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 02:49	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 02:49	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 02:49	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/08/17 02:49	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 02:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		77 - 120		05/08/17 02:49	1
4-Bromofluorobenzene (Surr)	96		73 - 120		05/08/17 02:49	1
Dibromofluoromethane (Surr)	90		75 - 123		05/08/17 02:49	1
Toluene-d8 (Surr)	78	*	80 - 120		05/08/17 02:49	1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-117114-4

Date Collected: 04/26/17 09:55

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 03:12	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:12	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 03:12	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 03:12	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 03:12	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 03:12	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 03:12	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: WELL 1-2A

Lab Sample ID: 480-117114-4

Date Collected: 04/26/17 09:55

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 03:12	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:12	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 03:12	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 03:12	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:12	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:12	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 03:12	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 03:12	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 03:12	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 03:12	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 03:12	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 03:12	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 03:12	1
Acetone	10	U	10	3.0	ug/L			05/08/17 03:12	1
Benzene	1.0	U	1.0	0.41	ug/L			05/08/17 03:12	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 03:12	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 03:12	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 03:12	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 03:12	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 03:12	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:12	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 03:12	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 03:12	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 03:12	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 03:12	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 03:12	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 03:12	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 03:12	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/08/17 03:12	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 03:12	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:12	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 03:12	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 03:12	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 03:12	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 03:12	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 03:12	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 03:12	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 03:12	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 03:12	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 03:12	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 03:12	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 03:12	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/08/17 03:12	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 03:12	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	82		77 - 120		05/08/17 03:12	1
4-Bromofluorobenzene (Surr)	99		73 - 120		05/08/17 03:12	1
Dibromofluoromethane (Surr)	91		75 - 123		05/08/17 03:12	1
Toluene-d8 (Surr)	78	*	80 - 120		05/08/17 03:12	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: WELL 1-3

Lab Sample ID: 480-117114-5

Date Collected: 04/26/17 09:50

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 03:36	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:36	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 03:36	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 03:36	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 03:36	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 03:36	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 03:36	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/08/17 03:36	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:36	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 03:36	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 03:36	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:36	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:36	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 03:36	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 03:36	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 03:36	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 03:36	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 03:36	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 03:36	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 03:36	1
Acetone	10	U	10	3.0	ug/L			05/08/17 03:36	1
Benzene	1.0	U	1.0	0.41	ug/L			05/08/17 03:36	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 03:36	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 03:36	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 03:36	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 03:36	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 03:36	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:36	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 03:36	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 03:36	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 03:36	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 03:36	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 03:36	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 03:36	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 03:36	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/08/17 03:36	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 03:36	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:36	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 03:36	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 03:36	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 03:36	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 03:36	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 03:36	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 03:36	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 03:36	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 03:36	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 03:36	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 03:36	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 03:36	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: WELL 1-3

Date Collected: 04/26/17 09:50

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-5

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			05/08/17 03:36	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 03:36	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	83		77 - 120					05/08/17 03:36	1
4-Bromofluorobenzene (Surr)	101		73 - 120					05/08/17 03:36	1
Dibromofluoromethane (Surr)	90		75 - 123					05/08/17 03:36	1
Toluene-d8 (Surr)	81		80 - 120					05/08/17 03:36	1

Client Sample ID: TRIP BLANK 042617

Date Collected: 04/26/17 00:00

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-6

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			05/08/17 03:59	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:59	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/08/17 03:59	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/08/17 03:59	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/08/17 03:59	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/08/17 03:59	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/08/17 03:59	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/08/17 03:59	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:59	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/08/17 03:59	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/08/17 03:59	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:59	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/08/17 03:59	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/08/17 03:59	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/08/17 03:59	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/08/17 03:59	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/08/17 03:59	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/08/17 03:59	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/08/17 03:59	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/08/17 03:59	1
Acetone	10	U	10	3.0	ug/L			05/08/17 03:59	1
Benzene	1.0	U	1.0	0.41	ug/L			05/08/17 03:59	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/08/17 03:59	1
Bromoform	1.0	U *	1.0	0.26	ug/L			05/08/17 03:59	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/08/17 03:59	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/08/17 03:59	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/08/17 03:59	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/08/17 03:59	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/08/17 03:59	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/08/17 03:59	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/08/17 03:59	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/08/17 03:59	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/08/17 03:59	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/08/17 03:59	1
Dibromochloromethane	1.0	U *	1.0	0.32	ug/L			05/08/17 03:59	1

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: TRIP BLANK 042617

Lab Sample ID: 480-117114-6

Date Collected: 04/26/17 00:00

Matrix: Water

Date Received: 04/28/17 09:30

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			05/08/17 03:59	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/08/17 03:59	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/08/17 03:59	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/08/17 03:59	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/08/17 03:59	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/08/17 03:59	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/08/17 03:59	1
Styrene	1.0	U	1.0	0.73	ug/L			05/08/17 03:59	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/08/17 03:59	1
Toluene	1.0	U	1.0	0.51	ug/L			05/08/17 03:59	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/08/17 03:59	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/08/17 03:59	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/08/17 03:59	1
Trichlorofluoromethane	1.0	U	1.0	0.88	ug/L			05/08/17 03:59	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/08/17 03:59	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/08/17 03:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	80		77 - 120		05/08/17 03:59	1
4-Bromofluorobenzene (Surr)	101		73 - 120		05/08/17 03:59	1
Dibromofluoromethane (Surr)	89		75 - 123		05/08/17 03:59	1
Toluene-d8 (Surr)	80		80 - 120		05/08/17 03:59	1

Surrogate Summary

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

TestAmerica Job ID: 480-117114-1

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)			
		12DCE (77-120)	BFB (73-120)	DBFM (75-123)	TOL (80-120)
480-117114-1	4009-13	83	98	90	79 *
480-117114-2	4009-13A	83	96	90	78 *
480-117114-3	TRIP BLANK 42617	85	96	90	78 *
480-117114-4	WELL 1-2A	82	99	91	78 *
480-117114-5	WELL 1-3	83	101	90	81
480-117114-6	TRIP BLANK 042617	80	101	89	80
LCS 480-356083/4	Lab Control Sample	82	101	90	81
MB 480-356083/7	Method Blank	81	103	89	82

Surrogate Legend

12DCE = 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: 480-117114-1

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

Lab Sample ID: MB 480-356083/7

Matrix: Water

Analysis Batch: 356083

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			05/07/17 21:30	1
1,1,2,2-Tetrachloroethane	1.0	U	1.0	0.21	ug/L			05/07/17 21:30	1
1,1,2-Trichloro-1,2,2-trifluoroethane	1.0	U	1.0	0.31	ug/L			05/07/17 21:30	1
1,1,2-Trichloroethane	1.0	U	1.0	0.23	ug/L			05/07/17 21:30	1
1,1-Dichloroethane	1.0	U	1.0	0.38	ug/L			05/07/17 21:30	1
1,1-Dichloroethene	1.0	U	1.0	0.29	ug/L			05/07/17 21:30	1
1,2,3-Trimethylbenzene	1.0	U	1.0	0.26	ug/L			05/07/17 21:30	1
1,2,4-Trichlorobenzene	1.0	U	1.0	0.41	ug/L			05/07/17 21:30	1
1,2,4-Trimethylbenzene	1.0	U	1.0	0.75	ug/L			05/07/17 21:30	1
1,2-Dibromo-3-Chloropropane	1.0	U	1.0	0.39	ug/L			05/07/17 21:30	1
1,2-Dibromoethane	1.0	U	1.0	0.73	ug/L			05/07/17 21:30	1
1,2-Dichlorobenzene	1.0	U	1.0	0.79	ug/L			05/07/17 21:30	1
1,2-Dichloroethane	1.0	U	1.0	0.21	ug/L			05/07/17 21:30	1
1,2-Dichloropropane	1.0	U	1.0	0.72	ug/L			05/07/17 21:30	1
1,3,5-Trimethylbenzene	1.0	U	1.0	0.77	ug/L			05/07/17 21:30	1
1,3-Dichlorobenzene	1.0	U	1.0	0.78	ug/L			05/07/17 21:30	1
1,4-Dichlorobenzene	1.0	U	1.0	0.84	ug/L			05/07/17 21:30	1
2-Butanone (MEK)	10	U	10	1.3	ug/L			05/07/17 21:30	1
2-Hexanone	5.0	U	5.0	1.2	ug/L			05/07/17 21:30	1
4-Methyl-2-pentanone (MIBK)	5.0	U	5.0	2.1	ug/L			05/07/17 21:30	1
Acetone	10	U	10	3.0	ug/L			05/07/17 21:30	1
Benzene	1.0	U	1.0	0.41	ug/L			05/07/17 21:30	1
Bromodichloromethane	1.0	U	1.0	0.39	ug/L			05/07/17 21:30	1
Bromoform	1.0	U	1.0	0.26	ug/L			05/07/17 21:30	1
Bromomethane	1.0	U	1.0	0.69	ug/L			05/07/17 21:30	1
Carbon disulfide	1.0	U	1.0	0.19	ug/L			05/07/17 21:30	1
Carbon tetrachloride	1.0	U	1.0	0.27	ug/L			05/07/17 21:30	1
Chlorobenzene	1.0	U	1.0	0.75	ug/L			05/07/17 21:30	1
Chloroethane	1.0	U	1.0	0.32	ug/L			05/07/17 21:30	1
Chloroform	1.0	U	1.0	0.34	ug/L			05/07/17 21:30	1
Chloromethane	1.0	U	1.0	0.35	ug/L			05/07/17 21:30	1
cis-1,2-Dichloroethene	1.0	U	1.0	0.81	ug/L			05/07/17 21:30	1
cis-1,3-Dichloropropene	1.0	U	1.0	0.36	ug/L			05/07/17 21:30	1
Cyclohexane	1.0	U	1.0	0.18	ug/L			05/07/17 21:30	1
Dibromochloromethane	1.0	U	1.0	0.32	ug/L			05/07/17 21:30	1
Dichlorodifluoromethane	1.0	U	1.0	0.68	ug/L			05/07/17 21:30	1
Ethylbenzene	1.0	U	1.0	0.74	ug/L			05/07/17 21:30	1
Isopropylbenzene	1.0	U	1.0	0.79	ug/L			05/07/17 21:30	1
Methyl acetate	2.5	U	2.5	1.3	ug/L			05/07/17 21:30	1
Methyl tert-butyl ether	1.0	U	1.0	0.16	ug/L			05/07/17 21:30	1
Methylcyclohexane	1.0	U	1.0	0.16	ug/L			05/07/17 21:30	1
Methylene Chloride	1.0	U	1.0	0.44	ug/L			05/07/17 21:30	1
Styrene	1.0	U	1.0	0.73	ug/L			05/07/17 21:30	1
Tetrachloroethene	1.0	U	1.0	0.36	ug/L			05/07/17 21:30	1
Toluene	1.0	U	1.0	0.51	ug/L			05/07/17 21:30	1
trans-1,2-Dichloroethene	1.0	U	1.0	0.90	ug/L			05/07/17 21:30	1
trans-1,3-Dichloropropene	1.0	U	1.0	0.37	ug/L			05/07/17 21:30	1
Trichloroethene	1.0	U	1.0	0.46	ug/L			05/07/17 21:30	1

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-117114-1

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

Lab Sample ID: MB 480-356083/7

Matrix: Water

Analysis Batch: 356083

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			05/07/17 21:30	1
Vinyl chloride	1.0	U	1.0	0.90	ug/L			05/07/17 21:30	1
Xylenes, Total	2.0	U	2.0	0.66	ug/L			05/07/17 21:30	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	81		77 - 120		05/07/17 21:30	1
4-Bromofluorobenzene (Surr)	103		73 - 120		05/07/17 21:30	1
Dibromofluoromethane (Surr)	89		75 - 123		05/07/17 21:30	1
Toluene-d8 (Surr)	82		80 - 120		05/07/17 21:30	1

Lab Sample ID: LCS 480-356083/4

Matrix: Water

Analysis Batch: 356083

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	25.0		ug/L		100	73 - 126
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	76 - 120
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	23.4		ug/L		94	61 - 148
1,1,2-Trichloroethane	25.0	22.8		ug/L		91	76 - 122
1,1-Dichloroethane	25.0	24.2		ug/L		97	77 - 120
1,1-Dichloroethene	25.0	22.4		ug/L		90	66 - 127
1,2,3-Trimethylbenzene	25.0	22.5		ug/L		90	78 - 120
1,2,4-Trichlorobenzene	25.0	22.7		ug/L		91	79 - 122
1,2,4-Trimethylbenzene	25.0	21.8		ug/L		87	76 - 121
1,2-Dibromo-3-Chloropropane	25.0	25.0		ug/L		100	56 - 134
1,2-Dibromoethane	25.0	23.3		ug/L		93	77 - 120
1,2-Dichlorobenzene	25.0	22.7		ug/L		91	80 - 124
1,2-Dichloroethane	25.0	24.5		ug/L		98	75 - 120
1,2-Dichloropropane	25.0	24.0		ug/L		96	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	22.4		ug/L		90	80 - 120
2-Butanone (MEK)	125	147		ug/L		117	57 - 140
2-Hexanone	125	134		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	125	125		ug/L		100	71 - 125
Acetone	125	166		ug/L		133	56 - 142
Benzene	25.0	22.9		ug/L		92	71 - 124
Bromodichloromethane	25.0	28.8		ug/L		115	80 - 122
Bromoform	25.0	36.1 *		ug/L		144	61 - 132
Bromomethane	25.0	22.9		ug/L		92	55 - 144
Carbon disulfide	25.0	21.3		ug/L		85	59 - 134
Carbon tetrachloride	25.0	29.4		ug/L		118	72 - 134
Chlorobenzene	25.0	22.9		ug/L		92	80 - 120
Chloroethane	25.0	20.9		ug/L		84	69 - 136
Chloroform	25.0	23.8		ug/L		95	73 - 127
Chloromethane	25.0	23.0		ug/L		92	68 - 124
cis-1,2-Dichloroethene	25.0	23.3		ug/L		93	74 - 124

TestAmerica Buffalo

QC Sample Results

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

TestAmerica Job ID: 480-117114-1

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

Lab Sample ID: LCS 480-356083/4

Matrix: Water

Analysis Batch: 356083

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	24.9		ug/L		99	74 - 124
Cyclohexane	25.0	24.2		ug/L		97	59 - 135
Dibromochloromethane	25.0	32.2	*	ug/L		129	75 - 125
Dichlorodifluoromethane	25.0	22.9		ug/L		91	59 - 135
Ethylbenzene	25.0	21.5		ug/L		86	77 - 123
Isopropylbenzene	25.0	21.7		ug/L		87	77 - 122
Methyl acetate	125	134		ug/L		108	74 - 133
Methyl tert-butyl ether	25.0	22.8		ug/L		91	77 - 120
Methylcyclohexane	25.0	23.0		ug/L		92	68 - 134
Methylene Chloride	25.0	21.1		ug/L		84	75 - 124
Styrene	25.0	22.3		ug/L		89	80 - 120
Tetrachloroethene	25.0	23.1		ug/L		92	74 - 122
Toluene	25.0	21.5		ug/L		86	80 - 122
trans-1,2-Dichloroethene	25.0	23.4		ug/L		94	73 - 127
trans-1,3-Dichloropropene	25.0	22.7		ug/L		91	80 - 120
Trichloroethene	25.0	23.6		ug/L		94	74 - 123
Trichlorofluoromethane	25.0	24.4		ug/L		97	62 - 150
Vinyl chloride	25.0	22.9		ug/L		92	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	82		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	90		75 - 123
Toluene-d8 (Surr)	81		80 - 120

QC Association Summary

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

TestAmerica Job ID: 480-117114-1

GC/MS VOA

Analysis Batch: 356083

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-117114-1	4009-13	Total/NA	Water	8260C	
480-117114-2	4009-13A	Total/NA	Water	8260C	
480-117114-3	TRIP BLANK 42617	Total/NA	Water	8260C	
480-117114-4	WELL 1-2A	Total/NA	Water	8260C	
480-117114-5	WELL 1-3	Total/NA	Water	8260C	
480-117114-6	TRIP BLANK 042617	Total/NA	Water	8260C	
MB 480-356083/7	Method Blank	Total/NA	Water	8260C	
LCS 480-356083/4	Lab Control Sample	Total/NA	Water	8260C	

Lab Chronicle

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

TestAmerica Job ID: 480-117114-1

Client Sample ID: 4009-13

Date Collected: 04/26/17 10:35

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 02:02	CDC	TAL BUF

Client Sample ID: 4009-13A

Date Collected: 04/26/17 10:35

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 02:25	CDC	TAL BUF

Client Sample ID: TRIP BLANK 42617

Date Collected: 04/26/17 00:00

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 02:49	CDC	TAL BUF

Client Sample ID: WELL 1-2A

Date Collected: 04/26/17 09:55

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 03:12	CDC	TAL BUF

Client Sample ID: WELL 1-3

Date Collected: 04/26/17 09:50

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 03:36	CDC	TAL BUF

Client Sample ID: TRIP BLANK 042617

Date Collected: 04/26/17 00:00

Date Received: 04/28/17 09:30

Lab Sample ID: 480-117114-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	356083	05/08/17 03:59	CDC	TAL BUF

Laboratory References:

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

TestAmerica Buffalo

Accreditation/Certification Summary

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

TestAmerica Job ID: 480-117114-1

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	03-31-18

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

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: 480-117114-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	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: 480-117114-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
480-117114-1	4009-13	Water	04/26/17 10:35	04/28/17 09:30
480-117114-2	4009-13A	Water	04/26/17 10:35	04/28/17 09:30
480-117114-3	TRIP BLANK 42617	Water	04/26/17 00:00	04/28/17 09:30
480-117114-4	WELL 1-2A	Water	04/26/17 09:55	04/28/17 09:30
480-117114-5	WELL 1-3	Water	04/26/17 09:50	04/28/17 09:30
480-117114-6	TRIP BLANK 042617	Water	04/26/17 00:00	04/28/17 09:30

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information		Sampler: <u>Lance Whalen</u>		Lab Pmt. <u>Stone, Judy L</u>		Carrier Tracking No(s):	
Client Contact: <u>Ms. Katie Bidwell</u>		Phone: <u>215-436-5041</u>		E-Mail: <u>judy.stone@testamericainc.com</u>		COC No: <u>480-96863-23080.1</u>	
Company: <u>ARCADIS U.S. Inc</u>		Due Date Requested:		Analysis Requested		Page: <u>Page 1 of 1</u>	
Address: <u>855 Route 146 Suite 210</u>		TAT Requested (days):		Preservation Codes:		Job#:	
City: <u>Clifton Park</u>		Standard		A-HCL		480-117114 COC Analyte	
State Zip: <u>NY, 12065</u>		PO #:		B-NaCl		W-PH 4.5	
Phone: <u>518-250-7300(Tel)</u>		Project 00266401.0000		C-Zn		Z-other (specify)	
Email: <u>katie.bidwell@arcadis-us.com</u>		MO #:		D-NH3		Other:	
Project Name: <u>NYSDEC-Standby VESTAL</u>		Contract D007618		E-NaH		J-Bi Wa.	
Site: <u>SSOW#</u>		48005198		F-MeO		K-EDTA	
				G-Asco		L-EDA	
				H-Asco			
				I-Ib			
				J-Bi Wa.			
				K-EDTA			
				L-EDA			
				M-Asco			
				N-Asco			
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				JA-Asco			
				JB-Asco			

Chain of Custody Record

Client Information		Supplier: <u>Lance Whalen</u>		Lab PM: <u>Stone, Judy L</u>		Carrier Tracking No(s):	
Client Contact: <u>Ms. Katie Bidwell</u>		Phone: <u>315-436-5041</u>		E-Mail: <u>judy.stone@testamericainc.com</u>		COC No: <u>480-96863-23030.1</u>	
Company: <u>ARCADIS U.S. Inc</u>		Address: <u>855 Route 146 Suite 210</u>		City: <u>Clifton Park</u>		State, Zip: <u>NY, 12065</u>	
Phone: <u>518-250-7300(Tel)</u>		PO #: <u>Project 00266401.0000</u>		WO #: <u>Contract D007618</u>		Project #: <u>48005198</u>	
Email: <u>katie.bidwell@arcadis-us.com</u>		Project Name: <u>NYSDC-Standard VESTAL</u>		Site: <u></u>		SSOW#: <u></u>	
Due Date Requested:		TAT Requested (days): <u>Standard</u>		Analysis Requested		Job #:	
Sample Identification		Sample Date		Sample Time		Sample Type (C=Comp, G=grab)	
Well 13		4-26-17		1035		G Water	
Well 13A		4-26-17		1035		G Water	
Trip Blank 42617		4-26-17		-		-	
Matrix (W=water, S=solid, O=wastebiol, BT=Tissue, A=Air)		Preservation Code:		Field Filtered Sample (Yes or No)		Perform MS/MSD (Yes or No)	
						8260C - (MOD) TCL list OLM4.2 + TMB5	
Total Number of containers							
Special Instructions/Note:							
Preservation Codes:							
A - HCL							
B - NaCl							
C - Zn							
D - Nitri							
E - NaH							
F - MeO							
G - Amc							
H - Asc							
I - Ice							
J - DI Wa							
K - EDTA							
L - EDA							
Other:							
480-117114 COC anhydrate							
- mVAA							
W - pH 4-5							
Z - other (specify)							
Possible Hazard Identification		Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological ☐		Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client ☐ Disposal By Lab ☐ Archive For ☐ Months	
Deliverable Requested: I, II, III, IV, Other (specify)				Special Instructions/QC Requirements:			
Empty Kit Relinquished by:		Date: <u>4-26-17</u> Time: <u>1500</u>		Received by: <u>[Signature]</u>		Method of Shipment: <u>Express</u>	
Relinquished by: <u>L. Whalen</u>		Company: <u></u>		Received by: <u></u>		Company: <u></u>	
Relinquished by: <u></u>		Company: <u></u>		Received by: <u></u>		Company: <u></u>	
Relinquished by: <u></u>		Company: <u></u>		Received by: <u></u>		Company: <u></u>	
Custody Seals Intact ☐ Yes ☐ No		Custody Seal No.: <u>30 #1</u>		Cooler Temperature(s) °C and Other Remarks:			

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-117114-1

Login Number: 117114

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

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.	False	
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	



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 01/13/2017
Reported: 01/18/2017

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-01

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:08

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/16/17 2248	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY

Microbac Laboratories, Inc.

3821 Buck Dr. | Cortland, NY 13045 | 607-753-3403 p | www.microbac.com

Page 1 of 23



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-01

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:08

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/16/17 2248	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/16/17 2248	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/16/17 2248	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/16/17 2248	NY
Surrogate: 4-Bromofluorobenzene	88.0		Limit: 70-130	% Rec			01/16/17 2248	NY
Surrogate: 1,2-Dichlorobenzene-d4	88.6		Limit: 70-130	% Rec			01/16/17 2248	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7A0796-02

Collected By: Bethany Robinson

Collection Date: 01/13/2017 8:10



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-02

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1525	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7A0796-02

Collected By: Bethany Robinson

Collection Date: 01/13/2017 8:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1525	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1525	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1525	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1525	NY
Surrogate: 4-Bromofluorobenzene	79.0		Limit: 70-130	% Rec			01/17/17 1525	NY
Surrogate: 1,2-Dichlorobenzene-d4	84.0		Limit: 70-130	% Rec			01/17/17 1525	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-03

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:18



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-03

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:18

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1558	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-03

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:18

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1558	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1558	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1558	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1558	NY
Surrogate: 4-Bromofluorobenzene	83.8		Limit: 70-130	% Rec			01/17/17 1558	NY
Surrogate: 1,2-Dichlorobenzene-d4	89.0		Limit: 70-130	% Rec			01/17/17 1558	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-04

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-04

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:20

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1632	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-04

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:20

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1632	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1632	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1632	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1632	NY
Surrogate: 4-Bromofluorobenzene	89.0		Limit: 70-130	% Rec			01/17/17 1632	NY
Surrogate: 1,2-Dichlorobenzene-d4	90.2		Limit: 70-130	% Rec			01/17/17 1632	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-05

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:53



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-05

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1705	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-05

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1705	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1705	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1705	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1705	NY
Surrogate: 4-Bromofluorobenzene	84.4		Limit: 70-130	% Rec			01/17/17 1705	NY
Surrogate: 1,2-Dichlorobenzene-d4	87.0		Limit: 70-130	% Rec			01/17/17 1705	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-06

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:55



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-06

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:55

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1739	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY

Microbac Laboratories, Inc.

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Page 16 of 23



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-06

Collected By: Bethany Robinson
Collection Date: 01/13/2017 8:55

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1739	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1739	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1739	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1739	NY
Surrogate: 4-Bromofluorobenzene	86.6		Limit: 70-130	% Rec			01/17/17 1739	NY
Surrogate: 1,2-Dichlorobenzene-d4	90.2		Limit: 70-130	% Rec			01/17/17 1739	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-07

Collected By: Bethany Robinson
Collection Date: 01/12/2017 14:20



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-07

Collected By: Bethany Robinson
Collection Date: 01/12/2017 14:20

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Bromobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Bromochloromethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
n-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
tert-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
sec-Butylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Carbon tetrachloride	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Chlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Chloroethane (Ethyl chloride)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
2-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
4-Chlorotoluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Dibromomethane (Methylene bromide)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,4-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,3-Dichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2-Dichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
cis-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
trans-1,2-Dichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
2,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,3-Dichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
cis-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
trans-1,3-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1-Dichloropropene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Ethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Hexachlorobutadiene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Isopropylbenzene (Cumene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Methyl bromide (Bromomethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Methyl tert-butyl ether (MTBE)	<0.500	10 NYVOA	0.500	ug/L			01/17/17 1812	NY
Methyl chloride (Chloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Methylene chloride (Dichloromethane)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Naphthalene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
n-Propylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Styrene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1,2,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1,1,2-Tetrachloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Tetrachloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Toluene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7A0796

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7A0796-07

Collected By: Bethany Robinson
Collection Date: 01/12/2017 14:20

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2,3-Trichlorobenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1,2-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,1,1-Trichloroethane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Trichloroethene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Trichlorofluoromethane (Freon 11)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2,3-Trichloropropane	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,3,5-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
1,2,4-Trimethylbenzene	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Vinyl chloride	<0.500	2 NYVOA	0.500	ug/L			01/17/17 1812	NY
m,p-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1812	NY
o-Xylene	<0.500	5 NYVOA	0.500	ug/L	Y		01/17/17 1812	NY
Xylenes (total)	<0.500	5 NYVOA	0.500	ug/L			01/17/17 1812	NY
Surrogate: 4-Bromofluorobenzene	85.4		Limit: 70-130	% Rec			01/17/17 1812	NY
Surrogate: 1,2-Dichlorobenzene-d4	90.0		Limit: 70-130	% Rec			01/17/17 1812	NY

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

MCL: Maximum Contaminant Level
NYVOA: New York DOH Part 5 Public Water System MCLs
RL: Reporting Limit
Y: This analyte is not on the laboratory's current scope of accreditation.

Project Requested Certification(s)

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.

Limits may be 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.

Reviewed and Approved By:

Andrew Canale For Michael Fifield
Division Manager
michael.fifield@microbac.com
01/18/2017 16:26



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7A0796

Client: **Town of Vestal**

Project: **Monthly**

Project Number: **Town of Vestal Monthly/Quarterly**

Field Route ID: **NY-Route 1 Bing**

Tenatively Scheduled: **1/10/2017**
Report To:

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Invoice To:

Darlene Skiba
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone : (607) 748-1514

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: **J7A0796-01**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 01-13-2017 @ 0808

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: **J7A0796-02**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 01-13-2017 @ 0810

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: **J7A0796-03**
Matrix: **Drinking Water**
Type: **Grab**

Sampled Date & Time: 01-13-2017 @ 0818

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1		14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7A0796

Client: Town of Vestal

Project: Monthly

Project Number: Town of Vestal Monthly/Quarterly

Field Route ID: NY-Route 1 Bing

Tenatively Scheduled: 1/10/2017

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
		V-40ml Clear vial, HCL	
Total Containers:			2

Sample ID: 1-3 Finished

Lab Sample ID: **J7A0796-04**
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 01-13-2017 @ 0830

PWSID:	Point Type:	Compliance Start:
Sampling Point:	Frequency	Compliance End:
Point No:	Num/Frequency	Sample Location:

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Raw

Lab Sample ID: **J7A0796-05**
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 01-13-2017 @ 0853

PWSID:	Point Type:	Compliance Start:
Sampling Point:	Frequency	Compliance End:
Point No:	Num/Frequency	Sample Location:

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: 4-2 Finished

Lab Sample ID: **J7A0796-06**
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 01-13-2017 @ 0858

PWSID:	Point Type:	Compliance Start:
Sampling Point:	Frequency	Compliance End:
Point No:	Num/Frequency	Sample Location:

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7A0796

Client: **Town of Vestal**Project: **Monthly**Project Number: **Town of Vestal Monthly/Quarterly**Field Route ID: **NY-Route 1 Bing**Tenatively Scheduled: **1/10/2017**

524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			2

Sample ID: Trip Blank

Lab Sample ID: **J7A0796-07**
Matrix: **Drinking Water**
Type: **Trip Blank**

Sampled Date & Time: 1-13-17 @ 1420

PWSID: _____	Point Type: _____	Compliance Start: _____
Sampling Point: _____	Frequency: _____	Compliance End: _____
Point No: _____	Num/Frequency: _____	Sample Location: _____

Analysis	Method	Container	Hold
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14.00 day(s)
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14.00 day(s)
Total Containers:			1

Sampled by: <u>Bethany Robinson</u>	Date/Time: <u>1-13-17 0857</u>	Received by: _____
Printed Name: Bethany Robinson		Printed Name: _____
Relinquished by: <u>Bethany Robinson</u>	Date/Time: <u>1-13-17 1030</u>	Received by: <u>Danille Gower</u>
Printed Name: <u>Bethany Robinson</u>		Printed Name: <u>Danille Gower</u>
Relinquished by: _____	Date/Time: _____	Received by: _____
Printed Name: _____		Printed Name: _____

As Recieved at Laboratory: On Ice: Yes / No Temp 6.1 °C Total Bottles 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via by BNR 01/12/2017 15:01



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Town of Vestal

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 02/07/2017
Reported: 02/16/2017

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-01

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:30

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2209	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2209	NY

Microbac Laboratories, Inc.

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Page 1 of 24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-01

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:30

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/14/17 2209	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2209	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2209	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2209	NY
Surrogate: 4-Bromofluorobenzene	95.4		Limit: 70-130	% Rec			02/14/17 2209	NY
Surrogate: 1,2-Dichlorobenzene-d4	91.2		Limit: 70-130	% Rec			02/14/17 2209	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7B0445-02

Collected By: BNR-Lab

Collection Date: 02/07/2017 8:33



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-02

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:33

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2240	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2240	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7B0445-02

Collected By: BNR-Lab

Collection Date: 02/07/2017 8:33

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/14/17 2240	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2240	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2240	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2240	NY
Surrogate: 4-Bromofluorobenzene	96.2		Limit: 70-130	% Rec			02/14/17 2240	NY
Surrogate: 1,2-Dichlorobenzene-d4	92.0		Limit: 70-130	% Rec			02/14/17 2240	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-03

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:36



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-03

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:36

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2311	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2311	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-03

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:36

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/14/17 2311	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2311	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2311	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2311	NY
Surrogate: 4-Bromofluorobenzene	99.4		Limit: 70-130	% Rec			02/14/17 2311	NY
Surrogate: 1,2-Dichlorobenzene-d4	95.4		Limit: 70-130	% Rec			02/14/17 2311	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-04

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:38



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-04

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:38

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2341	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/14/17 2341	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-04

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:38

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/14/17 2341	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2341	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/14/17 2341	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/14/17 2341	NY
Surrogate: 4-Bromofluorobenzene	94.0		Limit: 70-130	% Rec			02/14/17 2341	NY
Surrogate: 1,2-Dichlorobenzene-d4	90.2		Limit: 70-130	% Rec			02/14/17 2341	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-05

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:50



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-05

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:50

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0012	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0012	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Tetrachloroethene	1.25	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY

Microbac Laboratories, Inc.

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Page 13 of 24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-05

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:50

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,1,1-Trichloroethane	1.36	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Trichloroethene	0.920	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/15/17 0012	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0012	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0012	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0012	NY
Surrogate: 4-Bromofluorobenzene	100		Limit: 70-130	% Rec			02/15/17 0012	NY
Surrogate: 1,2-Dichlorobenzene-d4	96.4		Limit: 70-130	% Rec			02/15/17 0012	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-06

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:53



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-06

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0042	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0042	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-06

Collected By: BNR-Lab
Collection Date: 02/07/2017 8:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/15/17 0042	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0042	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0042	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0042	NY
Surrogate: 4-Bromofluorobenzene	93.6		Limit: 70-130	% Rec			02/15/17 0042	NY
Surrogate: 1,2-Dichlorobenzene-d4	89.4		Limit: 70-130	% Rec			02/15/17 0042	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-07

Collected By: BNR-Lab
Collection Date: 02/06/2017 9:10



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-07

Collected By: BNR-Lab
Collection Date: 02/06/2017 9:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Carbon tetrachloride	4.15	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0346	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			02/15/17 0346	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY

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Page 19 of 24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7B0445

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7B0445-07

Collected By: BNR-Lab
Collection Date: 02/06/2017 9:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L	Q2		02/15/17 0346	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0346	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		02/15/17 0346	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			02/15/17 0346	NY
Surrogate: 4-Bromofluorobenzene	98.8		Limit: 70-130	% Rec			02/15/17 0346	NY
Surrogate: 1,2-Dichlorobenzene-d4	92.6		Limit: 70-130	% Rec			02/15/17 0346	NY

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

MCL: Maximum Contaminant Level
Q2: LCS recovery is above acceptance limits. Results may be bias high.
RL: Reporting Limit
Y: This analyte is not on the laboratory's current scope of accreditation.

Project Requested Certification(s)

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.

Limits may be 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.

Reviewed and Approved By:

Michael Fifield For Michael Kolis
Client Services Support
Michael.kolis@microbac.com
02/16/2017 13:05

Microbac Laboratories, Inc.

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Page 20 of 24



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7B0445

TAT 7 days

Town of Vestal

Project Name: Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Tenatively Scheduled: 2/7/2017
Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J7B0445-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 02-07-2017 @ 0830

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-2A Finished

Lab Sample ID: J7B0445-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 02-07-2017 @ 0833

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-3 Raw

Lab Sample ID: J7B0445-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 02-07-2017 @ 0836



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7B0445

Town of Vestal

Project Name: Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Tenatively Scheduled: 2/7/2017
Field Route ID: NY-Route 1 Bing

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-3 Finished

Lab Sample ID: J7B0445-04

Matrix: Drinking Water

Sampled Date & Time: 02-07-2017 @ 0830

Type: Grab

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 4-2 Raw

Lab Sample ID: J7B0445-05

Matrix: Drinking Water

Sampled Date & Time: 02-07-2017 @ 0850

Type: Grab

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days



Microbac Laboratories, Inc., New York Division

Chain of Custody

J7B0445

Town of Vestal

Project Name: Monthly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Tenatively Scheduled: 2/7/2017
Field Route ID: NY-Route 1 Bing

524.2 VOC NY

EPA 524.2, Rv 4.1

V-40ml Clear vial, HCL

14 days

Total Containers: 2

Client Sample ID: 4-2 Finished

Lab Sample ID: J7B0445-06

Matrix: Drinking Water

Sampled Date & Time: 02-07-2017 @ 0853

Type: Grab

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: Trip Blank

Lab Sample ID: J7B0445-07

Matrix: Drinking Water

Sampled Date & Time: 02-06-2017 @ 0910

Type: Trip Blank

PWSID:	_____	Point Type:	_____	Compliance Start:	_____
Sampling Point:	_____	Frequency	_____	Compliance End:	_____
Point No:	_____	Num/Frequency	_____	Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 1			



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7B0445

Town of Vestal
Project Name: Monthly

Bill Peltz
 701 Vestal Parkway West
 Vestal, NY 13850-1363

Project / PO Number: N/A
 Tentatively Scheduled: 2/7/2017
 Field Route ID: NY-Route 1 Bing

Sampled by:	<i>Bethany Robinson</i>	Date/Time:		Received by:	
Printed Name: Bethany Robinson			02-07-2017 0900	Printed Name:	
Relinquished by:	<i>Bethany Robinson</i>	Date/Time:		Received by:	
Printed Name:	Bethany Robinson		02-07-2017 1156	Printed Name:	
Relinquished by:		Date/Time:		Received by:	
Printed Name:			2/7/17 1156	Printed Name:	<i>Brenna Murray</i>

As Received at Laboratory: On Ice: ☒ Yes / No Temp 6.8 °C Total Bottles: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via by BNR 02/06/2017 08:27



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363

Project / PO Number: N/A
Received: 03/07/2017
Reported: 03/13/2017

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-01

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:03

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 1919	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 1919	NY

Microbac Laboratories, Inc.

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Page 1 of 24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-01

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:03

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 1919	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 1919	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 1919	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1919	NY
Surrogate: 4-Bromofluorobenzene	98.6		Limit: 70-130	% Rec			03/08/17 1919	NY
Surrogate: 1,2-Dichlorobenzene-d4	100		Limit: 70-130	% Rec			03/08/17 1919	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7C0349-02

Collected By: Bethany Robinson

Collection Date: 03/07/2017 8:06



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-02

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:06

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 1949	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 1949	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-2A Finished

Sample Matrix: Drinking Water

Lab Sample ID: J7C0349-02

Collected By: Bethany Robinson

Collection Date: 03/07/2017 8:06

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 1949	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 1949	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 1949	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 1949	NY
Surrogate: 4-Bromofluorobenzene	97.4		Limit: 70-130	% Rec			03/08/17 1949	NY
Surrogate: 1,2-Dichlorobenzene-d4	99.4		Limit: 70-130	% Rec			03/08/17 1949	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-03

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:08



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-03

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:08

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2020	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2020	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-03

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:08

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 2020	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2020	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2020	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2020	NY
Surrogate: 4-Bromofluorobenzene	98.4		Limit: 70-130	% Rec			03/08/17 2020	NY
Surrogate: 1,2-Dichlorobenzene-d4	100		Limit: 70-130	% Rec			03/08/17 2020	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-04

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:10



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-04

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2050	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2050	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-04

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:10

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 2050	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2050	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2050	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2050	NY
Surrogate: 4-Bromofluorobenzene	98.4		Limit: 70-130	% Rec			03/08/17 2050	NY
Surrogate: 1,2-Dichlorobenzene-d4	101		Limit: 70-130	% Rec			03/08/17 2050	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-05

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:25



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-05

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:25

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2121	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2121	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Tetrachloroethene	0.770	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Raw
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-05

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:25

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,1,1-Trichloroethane	0.730	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Trichloroethene	0.900	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 2121	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2121	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2121	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2121	NY
Surrogate: 4-Bromofluorobenzene	97.2		Limit: 70-130	% Rec			03/08/17 2121	NY
Surrogate: 1,2-Dichlorobenzene-d4	99.4		Limit: 70-130	% Rec			03/08/17 2121	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-06

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:27



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-06

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:27

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2151	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2151	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: 4-2 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-06

Collected By: Bethany Robinson
Collection Date: 03/07/2017 8:27

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 2151	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2151	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2151	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2151	NY
Surrogate: 4-Bromofluorobenzene	97.8		Limit: 70-130	% Rec			03/08/17 2151	NY
Surrogate: 1,2-Dichlorobenzene-d4	101		Limit: 70-130	% Rec			03/08/17 2151	NY



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-07

Collected By: Bethany Robinson
Collection Date: 03/02/2017 15:53



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-07

Collected By: Bethany Robinson
Collection Date: 03/02/2017 15:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
Benzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Bromobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Bromochloromethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
n-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
tert-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
sec-Butylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Carbon tetrachloride	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Chlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Chloroethane (Ethyl chloride)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
2-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
4-Chlorotoluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Dibromomethane (Methylene bromide)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,4-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,3-Dichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Dichlorodifluoromethane (Freon-12)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2-Dichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
cis-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
trans-1,2-Dichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
2,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,3-Dichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
cis-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
trans-1,3-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1-Dichloropropene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Ethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Hexachlorobutadiene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Isopropylbenzene (Cumene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
4-Isopropyltoluene (p-Isopropyltoluene)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Methyl bromide (Bromomethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Methyl tert-butyl ether (MTBE)	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2222	NY
Methyl chloride (Chloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Methylene chloride (Dichloromethane)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Naphthalene	<0.500	50.0 MCL	0.500	ug/L			03/08/17 2222	NY
n-Propylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Styrene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1,2,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1,1,2-Tetrachloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Tetrachloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Toluene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY

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Page 19 of 24



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J7C0349

Client Sample ID: Trip Blank
Sample Matrix: Drinking Water
Lab Sample ID: J7C0349-07

Collected By: Bethany Robinson
Collection Date: 03/02/2017 15:53

Volatile Organic Compounds - GC/MS	Result	Limit(s)	RL	Units	Note	Prepared	Analyzed	Lab
Method: EPA 524.2/EPA 524.2, Rv 4.1								
1,2,4-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2,3-Trichlorobenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1,2-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,1,1-Trichloroethane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Trichloroethene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Trichlorofluoromethane (Freon 11)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2,3-Trichloropropane	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,3,5-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
1,2,4-Trimethylbenzene	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Vinyl chloride	<0.500	2.00 MCL	0.500	ug/L			03/08/17 2222	NY
m,p-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2222	NY
o-Xylene	<0.500	5.00 MCL	0.500	ug/L	Y		03/08/17 2222	NY
Xylenes (total)	<0.500	5.00 MCL	0.500	ug/L			03/08/17 2222	NY
Surrogate: 4-Bromofluorobenzene	97.6		Limit: 70-130	% Rec			03/08/17 2222	NY
Surrogate: 1,2-Dichlorobenzene-d4	101		Limit: 70-130	% Rec			03/08/17 2222	NY

Laboratory

NY: Microbac Laboratories, Inc., New York Division

Definitions

MCL: Maximum Contaminant Level
RL: Reporting Limit
Y: This analyte is not on the laboratory's current scope of accreditation.

Project Requested Certification(s)

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.

Limits may be 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.

Reviewed and Approved By:

Renee Lantz
Project Manager
renee.lantz@microbac.com
03/13/2017 23:58

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Page 20 of 24



Microbac Laboratories, Inc., New York Division

Chain of Custody

J7C0349**TAT 7 days**

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 3/7/2017
Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J7C0349-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-17 @ 0803

PWSID: _____ Point Type: _____
Sampling Point: _____ Frequency: _____
Point No: _____ Num/Frequency: _____ Sample Location: _____

Analysis	Method	Container	Hold Time
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-2A Finished

Lab Sample ID: J7C0349-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-16 @ 0806

PWSID: _____ Point Type: _____
Sampling Point: _____ Frequency: _____
Point No: _____ Num/Frequency: _____ Sample Location: _____

Analysis	Method	Container	Hold Time
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-3 Raw

Lab Sample ID: J7C0349-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-17 @ 0803



Microbac Laboratories, Inc., New York Division

Chain of Custody

J7C0349

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 3/7/2017
Field Route ID: NY-Route 1 Bing

PWSID: _____ Point Type: _____
Sampling Point: _____ Frequency: _____
Point No: _____ Num/Frequency: _____ Sample Location: _____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 1-3 Finished

Lab Sample ID: J7C0349-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-17 @ 1410

PWSID: _____ Point Type: _____
Sampling Point: _____ Frequency: _____
Point No: _____ Num/Frequency: _____ Sample Location: _____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: 4-2 Raw

Lab Sample ID: J7C0349-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-17 @ 1525

PWSID: _____ Point Type: _____
Sampling Point: _____ Frequency: _____
Point No: _____ Num/Frequency: _____ Sample Location: _____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1		14 days



Microbac Laboratories, Inc., New York Division
Chain of Custody
J7C0349

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 3/7/2017
Field Route ID: NY-Route 1 Bing

524.2 VOC NY

EPA 524.2, Rv 4.1

V-40ml Clear Vial, Ascorbic Acid, HCL

14 days

V-40ml Clear vial, HCL

Total Containers: 2

Client Sample ID: 4-2 Finished

Lab Sample ID: J7C0349-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 03-07-17 00:07

PWSID:	_____	Point Type:	_____
Sampling Point:	_____	Frequency	_____
Point No:	_____	Num/Frequency	_____
		Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 2			

Client Sample ID: Trip Blank

Lab Sample ID: J7C0349-07

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 03-02-17 01:53

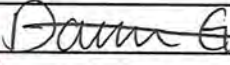
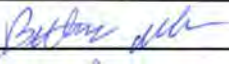
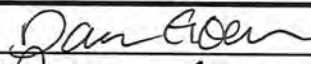
PWSID:	_____	Point Type:	_____
Sampling Point:	_____	Frequency	_____
Point No:	_____	Num/Frequency	_____
		Sample Location:	_____

<u>Analysis</u>	<u>Method</u>	<u>Container</u>	<u>Hold Time</u>
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear Vial, Ascorbic Acid, HCL	14 days
524.2 VOC NY	EPA 524.2, Rv 4.1	V-40ml Clear vial, HCL	14 days
Total Containers: 1			


Microbac Laboratories, Inc., New York Division
Chain of Custody
J7C0349
Town of Vestal
Project Name: Town of Vestal Monthly/Quarterly

Bill Peltz
701 Vestal Parkway West
Vestal, NY 13850-1363
Phone: (607) 748-1514

Project / PO Number: N/A
Tenatively Scheduled: 3/7/2017
Field Route ID: NY-Route 1 Bing

Sampled by: 	Date/Time:	Received by:  DNG2
Printed Name: Bethany Robinson	3-7-17 0831	Printed Name:
Relinquished by: 	Date/Time:	Received by:  3/7/17
Printed Name: Bethany Robinson	3-7-17 1250	Printed Name: Danielle Eiden 1250
Relinquished by:	Date/Time:	Received by:
Printed Name:		Printed Name:

As Received at Laboratory: On Ice: Yes / No Temp 5.7 °C Total Bottles: 13

Microbac Laboratories may be unable to perform a portion of the requested testing in which case we will subcontract the analysis to another accredited laboratory. By signing this document you are attesting that you have been informed by Microbac of the intent to subcontract and are in programs agreement with this action.

Notes:

Added via by BNR 03/02/2017 15:01

Arcadis CE, Inc.

855 Route 146

Suite 210

Clifton Park

New York 12065

Tel 518 205 7300

Fax 518 250 7301

www.arcadis.com