



Department of
Environmental
Conservation

Division of Environmental Remediation

REMEDIAL SYSTEM OPTIMIZATION REPORT - THIRD QUARTER 2018

Vestal Water Supply Site

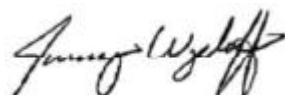
Vestal, New York (Site No. 7-04-009A)

November 2018

REMEDIAL SYSTEM OPTIMIZATION REPORT - THIRD QUARTER 2018



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

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1 INTRODUCTION

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

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

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

This Quarterly Report has been prepared to summarize the July 2018 through September 2018 field activities.

2 INVESTIGATION ACTIVITIES

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

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

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

2.1 Groundwater Sampling

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

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

2.1.1 Water Level Data

On September 13, 2018 groundwater levels were measured at all wells to be sampled using an electronic water-level meter. As indicated in Section 1, the Well 1-1A treatment plant continues to be shut down, therefore, groundwater levels are representative of static (non-pumping) conditions. Groundwater levels were used to calculate groundwater elevations and assess groundwater flow conditions across the site. A summary of groundwater elevation data is provided in Table 2-2. Groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest and north to northwest in the deep groundwater monitoring zone toward the Susquehanna River.

2.1.2 September 2018 Groundwater Sampling

Groundwater samples were collected using PDBs that were deployed on September 13, 2018 in the wells identified on Table 2-1. 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 1-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 September 2018 Groundwater Sampling Results

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

As shown in Table 2-3, with the exception of low estimated concentrations of acetone, a common laboratory contaminant, VOCs were not detected in the shallow groundwater zone monitoring wells 4009-11A, 4009-13A, 4009-16A, and 4009-30A. Acetone and benzene were the only VOCs detected in the shallow monitoring well 4009-10 at low estimated concentrations less than the Class GA Standards (50 µg/L and 1.0 µg/L respectively). Monitoring wells 4009-7 (65.1 µg/L) and 4009-9 (13.73 µg/L) were the only two wells screened in the shallow groundwater zone in which VOCs were detected above the Class GA Standards during the September 2018 sampling event. Acetone, benzene, 1,1-DCE, 1,1-DCA, and TCE were detected at low estimated concentrations less than the respective Class GA Standards in monitoring well 4009-7 and cis-1,2-DCE and VC were detected at concentrations greater than the respective Class GA Standards (5 µg/L and 2.0 µg/L). Cis-1,2-DCE was the only analyte detected in 4009-9 that exceeded the Class GA Standard (5 µg/L). TCE was also detected in the groundwater sample from well 4009-9 at a low estimated concentration less than the Class GA Standard. As shown in Figure 2-2, VOCs have not been detected at concentrations greater than the Class GA Standards in samples from monitoring wells 4009-10, 4009-11A, 4009-13A, 4009-16A, and 4009-30A in the past six sampling events. The concentrations detailed above in 4009-7 and 4009-9 have generally been consistent the past seven sampling events, showing slight fluctuations (Figure 2-2).

As shown in Figure 2-3 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 total VOC concentrations in groundwater samples collected from the intermediate zone during the September 2018 sampling event were from Wells 4009-8 (5,500 µg/L), 4009-29S (1,849 µg/L), and 4009-29I (2,015 µg/L). Well 4009-8 is located on the south side of NYS Route 17, just west of the source property. Wells 4009-29S and 4009-29I are on the north side of NYS Route 17, farther downgradient of the source area where higher concentrations are typically reported for the intermediate groundwater zone. With the exception of monitoring well 4009-27I, 1,1,1-TCA, cis-1,2-DCE, and TCE were detected at concentrations greater than the respective Class GA Standards in the remaining five intermediate groundwater zone monitoring wells. 1,1-DCE and 1,1-DCA were detected in four of the remaining intermediate wells, and VC was detected in

three of the remaining intermediate wells all with concentrations exceeding the respective Class GA Standards. Monitoring well 4009-27I (1.70 µg/L) contained the lowest total VOC concentration in the intermediate groundwater zone with a low concentration of TCE. As shown on Figure 2-3, the majority of the detected analytes in monitoring wells 4009-27S, 4009-27I, and 4009-29I are showing consistent or slightly decreasing concentrations over the past seven events. VOC concentrations in monitoring wells 4009-8, 4009-26, and 4009-29S continue to fluctuate; however, recent monitoring results are showing a slightly increasing trend that will continue to be monitored during the next quarter.

The following eleven monitoring wells screened in the deep groundwater monitoring zone contained concentrations of VOCs that exceeded the Class GA Standards; 4009-11, 4009-12, 4009-14, 4009-15, 4009-16, 4009-19, 4009-21, 4009-22, 4009-29D, 4009-30, and Well 1-1 (Figure 2-4 and Table 2-3). Benzene (discussed below) was the only VOC detected in seven of the eleven monitoring wells listed above at concentrations exceeding the Class GA Standard of 1.0 µg/L ranging from 1.2 µg/L (4009-22) to 33 µg/L (4009-30). The total VOCs measured in the remaining four deep monitoring wells where concentrations exceeded the Class GA Standards is as follows; 4009-11 (19.4 µg/L), 4009-12 (190 µg/L), 4009-29D (324 µg/L), and Well 1-1 (393 µg/L). 1,1,1-TCA, 1,1-DCE, 1,1-DCA, cis-1,2-DCE, and TCE were detected at concentrations greater than the respective Class GA Standards in at least three of the remaining four monitoring wells and VC was detected above the Class GA Standard in two of the four remaining wells (Figure 2-4). VOCs were not detected in the deep groundwater zone monitoring well 4009-18 and only low estimated VOCs were detected below the Class GA Standards in monitoring wells 4009-13, 4009-27D, and 4009-28 during the September 2018 sampling event (Table 2-3). As shown in Figure 2-4 there have been no VOC concentrations exceeding the Class GA Standards in samples from monitoring wells 4009-13, 4009-18, and 4009-27D for the past seven events.

Quarterly groundwater monitoring data continue to indicate that there is little change in the shallow, intermediate, and deep groundwater plume distribution and migration since the shutdown of the Well 1-1A groundwater treatment plant. Total VOCs detected in the groundwater samples collected in the September 2018 sampling event are generally consistent with the range of results reported during the last seven events with the exception of six wells: 4009-8, 4009-11, 4009-12, 4009-26, 4009-29S, and 4009-29D. VOC concentrations in 4009-8, 4009-11, 4009-12, and 4009-29D continue to fluctuate. As shown on Figure 2-3 monitoring well 4009-26 has shown a slight increase in several analytes in the past seven events and monitoring wells 4009-8 and 4009-29S have shown increases in several analytes since the last sampling event. With the exception of 4009-8, these fluctuations and noted increases in VOC concentrations are generally in the historical range for the remaining five wells. VOC concentrations in 4009-8 are slightly greater than the range of typical concentrations previously recorded (Table 2-3). Concentration trends will continue to be monitored during the next quarter.

Concentrations of VOCs in samples from the monitoring wells in the vicinity of the Town of Vestal's water supply wells 1-2A and 1-3 (monitoring wells 4009-16/16A, 4009-18, 4009-19, 4009-21, 4009-30/30A) are generally consistent with the previous sampling events. VOCs were not detected at concentrations greater than the Class GA Standards in monitoring wells 4009-16A, 4009-18, and 4009-30A. Benzene was the only VOC detected at a concentration exceeding the Class GA Standard (1 µg/L) in wells 4009-16 (1.5 µg/L), 4009-19 (1.5 µg/L), 4009-21 (5.3 µg/L), and 4009-30 (33 µg/L). Concentration trends will continue to be monitored during the next quarter.

Benzene concentrations have increased in the central portion of the study area over the past several years in the samples from monitoring wells, 4009-14, 4009-15, 4009-16, 4009-21 and more recently 4009-30. Benzene concentrations also continue to fluctuate in monitoring wells 4009-11 and 4009-12. Benzene was not detected at concentrations greater than the Class GA Standard in the samples collected from the shallow and intermediate zones during the September 2018 sampling event. Benzene concentrations in the samples collected from deep monitoring wells 4009-11 (8.9 µg/L), 4009-14 (1.6 µg/L), 4009-15 (7.3 µg/L), 4009-16 (1.5 µg/L), 4009-19 (1.5 µg/L), 4009-21 (5.3 µg/L) 4009-22 (1.2 µg/L), and 4009-30 (33 µg/L), exceeded the Class GA Standard of 1.0 µg/L during the September 2018 sampling event. As shown in Table 2-3, these concentrations are similar to previous sampling results with the exception of the concentration in 4009-30, which is slightly greater than the range of typical concentrations previously recorded. As noted previously, three monitoring wells (4009-7, 4009-8, and 4009-26) were added to the first quarter 2017 sampling list in an attempt to identify the source of the benzene increases. However, benzene was not detected at concentrations greater than the Class GA Standard in the samples from those monitoring wells during the 2017 and 2018 sampling events. Benzene concentrations will continue to be monitored during the next quarter.

2.1.3 Town of Vestal Municipal Well Sampling

Monthly analytical data are provided by the Town of Vestal Water Superintendent for Well 1-2A and 1-3. Samples were collected on July 17, 2018, August 27, 2018, and September 24, 2018. Pre-treatment groundwater samples were also collected by Arcadis from the Town of Vestal water supply wells 1-2A and 1-3 and post-treatment samples from Well 1-3 on July 6, 2018, August 8, 2018, and September 13, 2018. These samples were used to supplement the Town's monthly influent sampling data and to evaluate potential impacts to the Town's water supply wells related to the shutdown of the Well 1-1A treatment plant. Samples were collected in consultation with the Town of Vestal Water District Superintendent and submitted to TestAmerica for analysis of VOCs by USEPA Method 8260.

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

3 RECOMMENDATIONS

Town of Vestal Wells 1-2A and 1-3 (pre-and post-treatment) should continue to be sampled on a monthly basis to supplement the Town's sampling program at least until the final 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.

4 ACTIVITIES FOR NEXT QUARTER

Scheduled activities for the next quarter are summarized below.

- Monthly sampling at Town of Vestal Wells 1-2A and 1-3 (pre and post treatment).
- Quarterly groundwater sampling (December 2018).

TABLES

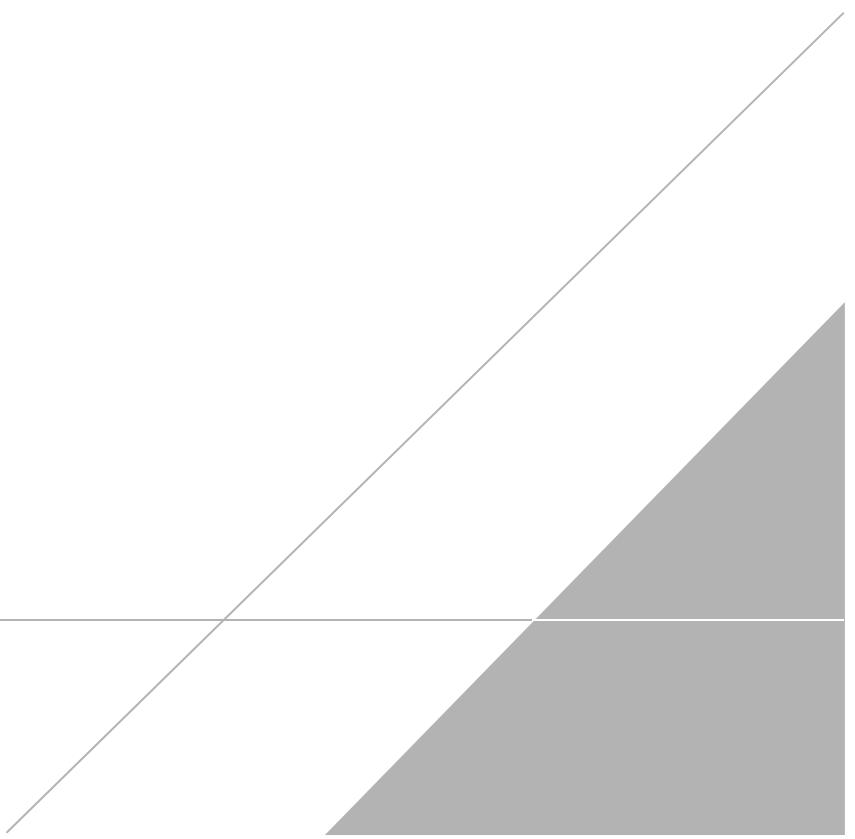


Table 2-1. Summary of the Groundwater Monitoring Locations

Remedial Site Optimization Report

Third Quarter 2018

Vestal Water Supply Site

Site Number 7-04-009A

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

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

| WELL I.D. | *Top of Riser (ft [*] AMSL) | 2/19/2014 | | | 3/17/2014 | | | 5/12/2014 | | |
|-----------|--------------------------------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|
| | | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) |
| 4009-7 | 824.27 | 18.76 | NP | 805.51 | 16.28 | NP | 807.99 | 16.91 | NP | 807.36 |
| 4009-8 | 824.52 | 19.69 | NP | 804.83 | 13.28 | NP | 811.24 | 17.60 | NP | 806.92 |
| 4009-9 | 825.05 | 20.36 | NP | 804.69 | 18.00 | NP | 807.05 | 18.82 | NP | 806.23 |
| 4009-10 | 831.31 | 26.44 | NP | 804.87 | 24.28 | NP | 807.03 | 24.95 | NP | 806.36 |
| 4009-11 | 830.06 | 26.95 | NP | 803.11 | 23.75 | NP | 806.31 | 24.89 | NP | 805.17 |
| 4009-11A | 830.80 | 15.22 | NP | 815.58 | 14.78 | NP | 816.02 | 14.56 | NP | 816.24 |
| 4009-12 | 823.34 | 18.80 | NP | 804.54 | 16.68 | NP | 806.66 | 17.52 | NP | 805.82 |
| 4009-13 | 816.28 | 12.31 | NP | 803.97 | 8.97 | NP | 807.31 | 10.42 | NP | 805.86 |
| 4009-13A | 816.17 | 11.74 | NP | 804.43 | 8.72 | NP | 807.45 | 9.94 | NP | 806.23 |
| 4009-14 | 820.71 | 16.62 | NP | 804.09 | 13.43 | NP | 807.28 | 15.36 | NP | 805.35 |
| 4009-15 | 826.54 | 22.63 | NP | 803.91 | 19.35 | NP | 807.19 | 11.93 | NP | 814.61 |
| 4009-16 | 826.72 | 22.68 | NP | 804.04 | 19.50 | NP | 807.22 | 21.12 | NP | 805.60 |
| 4009-16A | 826.84 | 22.45 | NP | 804.39 | 19.45 | NP | 807.39 | 21.22 | NP | 805.62 |
| 4009-18 | 834.78 | 30.59 | NP | 804.19 | 27.61 | NP | 807.17 | 29.38 | NP | 805.40 |
| 4009-19 | 824.94 | 20.79 | NP | 804.15 | 17.78 | NP | 807.16 | 19.54 | NP | 805.40 |
| 4009-21 | 825.02 ** | 18.90 | NP | 804.20 | 15.90 | NP | 807.20 | 17.65 | NP | 805.45 |
| 4009-22 | 817.40 | 13.06 | NP | 804.34 | 9.85 | NP | 807.55 | 11.50 | NP | 805.90 |
| 4009-26 | 824.31 | 19.36 | NP | 804.95 | 16.55 | NP | 807.76 | 17.39 | NP | 806.92 |
| 4009-27S | 826.19 | 21.97 | NP | 804.22 | 18.80 | NP | 807.39 | 20.02 | NP | 806.17 |
| 4009-27I | 826.03 | 21.93 | NP | 804.10 | 18.63 | NP | 807.40 | 19.98 | NP | 806.05 |
| 4009-27D | 825.87 | 21.90 | NP | 803.97 | 18.43 | NP | 807.44 | 19.88 | NP | 805.99 |
| 4009-28 | 821.59 | 17.71 | NP | 803.88 | 14.45 | NP | 807.14 | 16.00 | NP | 805.59 |
| 4009-29S | 825.77 | 21.75 | NP | 804.02 | 18.42 | NP | 807.35 | 19.75 | NP | 806.02 |
| 4009-29I | 825.68 | 21.94 | NP | 803.74 | 18.51 | NP | 807.17 | 19.86 | NP | 805.82 |
| 4009-29D | 825.67 | 21.92 | NP | 803.75 | 18.54 | NP | 807.13 | 19.80 | NP | 805.87 |
| 4009-30 | 827.50 ** | NM | NM | NM | NM | NM | NM | NM | NM | NM |
| 4009-30A | 826.69 ** | NM | NM | NM | NM | NM | NM | NM | NM | NM |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL
 density of 0.85 g/cm³

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

| WELL I.D. | *Top of Riser (f* AMSL) | 8/11/2014 | | | 11/24/2014 | | | 4/1/2015 | | | 7/13/2015 | | |
|-----------|-------------------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|
| | | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) |
| 4009-7 | 824.27 | 20.22 | NP | 804.05 | 19.34 | NP | 804.93 | 17.74 | NP | 806.53 | 16.53 | NP | 807.74 |
| 4009-8 | 824.52 | 20.96 | NP | 803.56 | 20.24 | NP | 804.28 | 18.26 | NP | 806.26 | 17.05 | NP | 807.47 |
| 4009-9 | 825.05 | 21.84 | NP | 803.21 | 21.28 | NP | 803.77 | 19.23 | NP | 805.82 | 18.02 | NP | 807.03 |
| 4009-10 | 831.31 | 27.88 | NP | 803.43 | 27.43 | NP | 803.88 | 25.48 | NP | 805.83 | 24.16 | NP | 807.15 |
| 4009-11 | 830.06 | 28.36 | NP | 801.70 | 26.51 | NP | 803.55 | 24.89 | NP | 805.17 | 24.72 | NP | 805.34 |
| 4009-11A | 830.80 | 16.69 | NP | 814.11 | 20.43 | NP | 810.37 | 14.94 | NP | 815.86 | 14.77 | NP | 816.03 |
| 4009-12 | 823.34 | 20.90 | NP | 802.44 | 19.22 | NP | 804.12 | 17.45 | NP | 805.89 | 17.34 | NP | 806.00 |
| 4009-13 | 816.28 | 13.60 | NP | 802.68 | 12.07 | NP | 804.21 | 10.37 | NP | 805.91 | 10.09 | NP | 806.19 |
| 4009-13A | 816.17 | 13.00 | NP | 803.17 | 11.93 | NP | 804.24 | 10.09 | NP | 806.08 | 9.38 | NP | 806.79 |
| 4009-14 | 820.71 | 18.07 | NP | 802.64 | 16.57 | NP | 804.14 | 14.80 | NP | 805.91 | 14.66 | NP | 806.05 |
| 4009-15 | 826.54 | 24.18 | NP | 802.36 | 22.53 | NP | 804.01 | 20.76 | NP | 805.78 | 20.85 | NP | 805.69 |
| 4009-16 | 826.72 | 24.30 | NP | 802.42 | 22.70 | NP | 804.02 | 20.93 | NP | 805.79 | 26.87 | NP | 799.85 |
| 4009-16A | 826.84 | 24.31 | NP | 802.53 | 22.72 | NP | 804.12 | 20.94 | NP | 805.90 | 27.03 | NP | 799.81 |
| 4009-18 | 834.78 | 32.23 | NP | 802.55 | 30.73 | NP | 804.05 | 26.51 | NP | 808.27 | 29.02 | NP | 805.76 |
| 4009-19 | 824.94 | 22.42 | NP | 802.52 | 20.91 | NP | 804.03 | 19.15 | NP | 805.79 | 19.19 | NP | 805.75 |
| 4009-21 | 825.02 | ** 20.55 | NP | 802.55 | 19.03 | NP | 804.07 | 19.33 | NP | 805.69 | 19.41 | NP | 805.61 |
| 4009-22 | 817.40 | 14.03 | NP | 803.37 | 13.27 | NP | 804.13 | 11.55 | NP | 805.85 | 9.90 | NP | 807.50 |
| 4009-26 | 824.31 | 20.62 | NP | 803.69 | 19.92 | NP | 804.39 | 17.94 | NP | 806.37 | 16.75 | NP | 807.56 |
| 4009-27S | 826.19 | 23.29 | NP | 802.90 | 22.02 | NP | 804.17 | 20.27 | NP | 805.92 | 19.56 | NP | 806.63 |
| 4009-27I | 826.03 | 23.18 | NP | 802.85 | 21.85 | NP | 804.18 | 20.03 | NP | 806.00 | 19.58 | NP | 806.45 |
| 4009-27D | 825.87 | 23.02 | NP | 802.85 | 21.65 | NP | 804.22 | 19.86 | NP | 806.01 | 19.41 | NP | 806.46 |
| 4009-28 | 821.59 | 19.23 | NP | 802.36 | 17.65 | NP | 803.94 | 15.80 | NP | 805.79 | 15.72 | NP | 805.87 |
| 4009-29S | 825.77 | 23.03 | NP | 802.74 | 21.60 | NP | 804.17 | 19.80 | NP | 805.97 | 19.40 | NP | 806.37 |
| 4009-29I | 825.68 | 23.22 | NP | 802.46 | 21.61 | NP | 804.07 | 19.89 | NP | 805.79 | 19.63 | NP | 806.05 |
| 4009-29D | 825.67 | 23.18 | NP | 802.49 | 21.60 | NP | 804.07 | 19.86 | NP | 805.81 | 19.81 | NP | 805.86 |
| 4009-30 | 827.50 | ** NM | NM | NM | NM | NM | NM | 21.32 | NP | 806.18 | 20.81 | NP | 806.69 |
| 4009-30A | 826.69 | ** NM | NM | NM | NM | NM | NM | 20.82 | NP | 805.87 | 20.97 | NP | 805.72 |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL density of 0.85 g/cm3

| WELL I.D. | *Top of Riser (ft AMSL) | 10/12/2015 | | | 3/28/2016 | | | 6/1/2016 | | | |
|-----------|-------------------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|--------|
| | | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | |
| 4009-7 | 824.27 | 21.17 | NP | 803.10 | 18.35 | NP | 805.92 | 19.69 | NP | 804.58 | |
| 4009-8 | 824.52 | 22.03 | NP | 802.49 | 18.97 | NP | 805.55 | 20.46 | NP | 804.06 | |
| 4009-9 | 825.05 | 22.83 | NP | 802.22 | 19.84 | NP | 805.21 | 21.43 | NP | 803.62 | |
| 4009-10 | 831.31 | 28.84 | NP | 802.47 | 20.95 | NP | 810.36 | 27.44 | NP | 803.87 | |
| 4009-11 | 830.06 | 28.80 | NP | 801.26 | 26.25 | NP | 803.81 | 27.69 | NP | 802.37 | |
| 4009-11A | 830.80 | 16.97 | NP | 813.83 | 16.05 | NP | 814.75 | 16.60 | NP | 814.20 | |
| 4009-12 | 823.34 | 21.56 | NP | 801.78 | 18.9 | NP | 804.44 | 20.26 | NP | 803.08 | |
| 4009-13 | 816.28 | 14.29 | NP | 801.99 | 11.68 | NP | 804.60 | 12.98 | NP | 803.30 | |
| 4009-13A | 816.17 | 13.97 | NP | 802.20 | 11.12 | NP | 805.05 | 12.51 | NP | 803.66 | |
| 4009-14 | 820.71 | 18.73 | NP | 801.98 | 16.23 | NP | 804.48 | 17.47 | NP | 803.24 | |
| 4009-15 | 826.54 | 24.79 | NP | 801.75 | 22.21 | NP | 804.33 | 23.48 | NP | 803.06 | |
| 4009-16 | 826.72 | 25.01 | NP | 801.71 | 22.38 | NP | 804.34 | 23.62 | NP | 803.10 | |
| 4009-16A | 826.84 | 25.18 | NP | 801.66 | 22.51 | NP | 804.33 | 23.49 | NP | 803.35 | |
| 4009-18 | 834.78 | 33.04 | NP | 801.74 | 30.65 | NP | 804.13 | 31.59 | NP | 803.19 | |
| 4009-19 | 824.94 | 23.31 | NP | 801.63 | 20.99 | NP | 803.95 | 21.78 | NP | 803.16 | |
| 4009-21 | 825.02 | ** | 23.98 | NP | 801.04 | 22.03 | NP | 802.99 | 21.98 | NP | 803.04 |
| 4009-22 | 817.40 | 13.28 | NP | 804.12 | 11.42 | NP | 805.98 | 11.95 | NP | 805.45 | |
| 4009-26 | 824.31 | 21.69 | NP | 802.62 | 18.68 | NP | 805.63 | 20.12 | NP | 804.19 | |
| 4009-27S | 826.19 | 24.14 | NP | 802.05 | 21.30 | NP | 804.89 | 22.72 | NP | 803.47 | |
| 4009-27I | 826.03 | 23.98 | NP | 802.05 | 21.23 | NP | 804.80 | 22.61 | NP | 803.42 | |
| 4009-27D | 825.87 | 23.80 | NP | 802.07 | 21.05 | NP | 804.82 | 22.42 | NP | 803.45 | |
| 4009-28 | 821.59 | 19.85 | NP | 801.74 | 17.3 | NP | 804.29 | 18.58 | NP | 803.01 | |
| 4009-29S | 825.77 | 23.83 | NP | 801.94 | 21.11 | NP | 804.66 | 22.43 | NP | 803.34 | |
| 4009-29I | 825.68 | 23.91 | NP | 801.77 | 21.27 | NP | 804.41 | 22.55 | NP | 803.13 | |
| 4009-29D | 825.67 | 23.89 | NP | 801.78 | 21.19 | NP | 804.48 | 22.55 | NP | 803.12 | |
| 4009-30 | 827.50 | ** | 25.81 | NP | 801.69 | 22.38 | NP | 805.12 | 24.26 | NP | 803.24 |
| 4009-30A | 826.69 | ** | 25.12 | NP | 801.57 | 22.41 | NP | 804.28 | 23.55 | NP | 803.14 |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL
 density of 0.85 g/cm3

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

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

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL
 density of 0.85 g/cm3

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

| WELL I.D. | *Top of Riser (ft* AMSL) | 10/5/2017 | | | 12/12/2017 | | | 3/16/2018 | | |
|-----------|-----------------------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|
| | | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) |
| 4009-7 | 824.27 | 20.89 | NP | 803.38 | 19.29 | NP | 804.98 | 17.27 | NP | 807.00 |
| 4009-8 | 824.52 | 21.79 | NP | 802.73 | 20.06 | NP | 804.46 | 16.81 | NP | 807.71 |
| 4009-9 | 825.05 | 22.79 | NP | 802.26 | 21.12 | NP | 803.93 | 18.09 | NP | 806.96 |
| 4009-10 | 831.31 | 28.66 | NP | 802.65 | 27.23 | NP | 804.08 | 26.41 | NP | 804.90 |
| 4009-11 | 830.06 | 29.19 | NP | 800.87 | 26.89 | NP | 803.17 | 24.55 | NP | 805.51 |
| 4009-11A | 830.80 | 15.26 | NP | 815.54 | 17.15 | NP | 813.65 | 13.91 | NP | 816.89 |
| 4009-12 | 823.34 | 21.80 | NP | 801.54 | 19.58 | NP | 803.76 | 17.23 | NP | 806.11 |
| 4009-13 | 816.28 | 14.44 | NP | 801.84 | 12.35 | NP | 803.93 | 8.86 | NP | 807.42 |
| 4009-13A | 816.17 | 13.88 | NP | 802.29 | 12.02 | NP | 804.15 | 9.24 | NP | 806.93 |
| 4009-14 | 820.71 | 18.94 | NP | 801.77 | 16.82 | NP | 803.89 | 14.51 | NP | 806.20 |
| 4009-15 | 826.54 | 25.03 | NP | 801.51 | 22.81 | NP | 803.73 | 20.49 | NP | 806.05 |
| 4009-16 | 826.72 | 25.23 | NP | 801.49 | 22.94 | NP | 803.78 | 20.72 | NP | 806.00 |
| 4009-16A | 826.84 | 25.29 | NP | 801.55 | 22.91 | NP | 803.93 | 20.84 | NP | 806.00 |
| 4009-18 | 834.78 | 33.10 | NP | 801.68 | 30.93 | NP | 803.85 | 28.89 | NP | 805.89 |
| 4009-19 | 824.94 | 23.33 | NP | 801.61 | 21.13 | NP | 803.81 | 19.05 | NP | 805.89 |
| 4009-21 | 825.02 ** | 23.46 | NP | 801.56 | 21.3 | NP | 803.72 | 19.53 | NP | 805.49 |
| 4009-22 | 817.40 | 11.56 | NP | 805.84 | 11.78 | NP | 805.62 | 9.93 | NP | 807.47 |
| 4009-26 | 824.31 | 21.48 | NP | 802.83 | 19.73 | NP | 804.58 | 16.60 | NP | 807.71 |
| 4009-27S | 826.19 | 24.21 | NP | 801.98 | 22.12 | NP | 804.07 | 19.46 | NP | 806.73 |
| 4009-27I | 826.03 | 24.10 | NP | 801.93 | 22.01 | NP | 804.02 | 19.47 | NP | 806.56 |
| 4009-27D | 825.87 | 23.92 | NP | 801.95 | 21.84 | NP | 804.03 | 19.26 | NP | 806.61 |
| 4009-28 | 821.59 | 20.13 | NP | 801.46 | 17.92 | NP | 803.67 | 15.56 | NP | 806.03 |
| 4009-29S | 825.77 | 23.95 | NP | 801.82 | 21.84 | NP | 803.93 | 19.32 | NP | 806.45 |
| 4009-29I | 825.68 | 24.14 | NP | 801.54 | 21.91 | NP | 803.77 | 19.29 | NP | 806.39 |
| 4009-29D | 825.67 | 24.08 | NP | 801.59 | 21.89 | NP | 803.78 | 19.46 | NP | 806.21 |
| 4009-30 | 827.50 ** | 25.98 | NP | 801.52 | 23.74 | NP | 803.76 | 21.56 | NP | 805.94 |
| 4009-30A | 826.69 ** | 25.23 | NP | 801.46 | 23.05 | NP | 803.64 | 20.73 | NP | 805.96 |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL
 density of 0.85 g/cm3

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

| WELL I.D. | *Top of Riser (f* AMSL) | 5/31/2018 | | | 9/13/2018 | | |
|-----------|----------------------------|------------|------------|-----------------|------------|------------|-----------------|
| | | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) | D*W (fbgs) | D*P (fbgs) | GW ELEV (famsl) |
| 4009-7 | 824.27 | 17.64 | NP | 806.63 | 17.07 | NP | 807.20 |
| 4009-8 | 824.52 | 18.36 | NP | 806.16 | 17.78 | NP | 806.74 |
| 4009-9 | 825.05 | 19.57 | NP | 805.48 | 19.23 | NP | 805.82 |
| 4009-10 | 831.31 | 25.65 | NP | 805.66 | 25.48 | NP | 805.83 |
| 4009-11 | 830.06 | 26.65 | NP | 803.41 | 24.39 | NP | 805.67 |
| 4009-11A | 830.80 | 14.54 | NP | 816.26 | 13.58 | NP | 817.22 |
| 4009-12 | 823.34 | 18.57 | NP | 804.77 | 16.95 | NP | 806.39 |
| 4009-13 | 816.28 | 11.44 | NP | 804.84 | 9.75 | NP | 806.53 |
| 4009-13A | 816.17 | 10.74 | NP | 805.43 | 9.44 | NP | 806.73 |
| 4009-14 | 820.71 | 16.87 | NP | 803.84 | 14.19 | NP | 806.52 |
| 4009-15 | 826.54 | 22.08 | NP | 804.46 | 20.21 | NP | 806.33 |
| 4009-16 | 826.72 | 22.23 | NP | 804.49 | 20.41 | NP | 806.31 |
| 4009-16A | 826.84 | 21.81 | NP | 805.03 | 20.24 | NP | 806.60 |
| 4009-18 | 834.78 | 30.27 | NP | 804.51 | 28.53 | NP | 806.25 |
| 4009-19 | 824.94 | 20.43 | NP | 804.51 | 18.79 | NP | 806.15 |
| 4009-21 | 825.02 ** | 20.63 | NP | 804.39 | 20.58 | NP | 804.44 |
| 4009-22 | 817.40 | 10.51 | NP | 806.89 | 9.70 | NP | 807.70 |
| 4009-26 | 824.31 | 18.09 | NP | 806.22 | 17.39 | NP | 806.92 |
| 4009-27S | 826.19 | 20.98 | NP | 805.21 | 19.54 | NP | 806.65 |
| 4009-27I | 826.03 | 20.96 | NP | 805.07 | 19.48 | NP | 806.55 |
| 4009-27D | 825.87 | 20.81 | NP | 805.06 | 19.30 | NP | 806.57 |
| 4009-28 | 821.59 | 17.16 | NP | 804.43 | 15.83 | NP | 805.76 |
| 4009-29S | 825.77 | 20.83 | NP | 804.94 | 19.28 | NP | 806.49 |
| 4009-29I | 825.68 | 21.04 | NP | 804.64 | 19.30 | NP | 806.38 |
| 4009-29D | 825.67 | 21.01 | NP | 804.66 | 19.26 | NP | 806.41 |
| 4009-30 | 827.50 ** | 30.02 | NP | 797.48 | 21.15 | NP | 806.35 |
| 4009-30A | 826.69 ** | 22.16 | NP | 804.53 | 20.29 | NP | 806.40 |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

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

NM - Not measured

NP - No product / LNAPL

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

 Corrected based on assumed LNAPL
 density of 0.85 g/cm3

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-7 2/20/2014 Shallow ug/L | 4009-7 5/28/2014 Shallow ug/L | 4009-7 8/28/2014 Shallow ug/L | 4009-7 12/9/2014 Shallow ug/L | 4009-7 4/10/2017 Shallow ug/L | 4009-7 6/20/2017 Shallow ug/L | 4009-7 10/23/2017 Shallow ug/L | 4009-7 12/28/2017 Shallow ug/L | 4009-7 3/30/2018 Shallow ug/L | 4009-7 6/14/2018 Shallow ug/L | 4009-7 9/27/2018 Shallow ug/L | 4009-8 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 | |
|--|----------------------------------|--|--|--|--|--|--|---|---|--|--|--|---|---|---|---|------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 790 D | 1000 | 2900 DJ | 1500 |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 14 | 13 J | 20 UDJ | 17 J |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.5 J | 20 U | 20 UDJ | 25 U |
| 1,1-Dichloroethane | 5 | 1.0 J | 0.48 J | 1.0 UJ | 3.3 U | 1.1 | 0.59 J | 0.44 J | 0.63 J | 0.47 J | 0.59 J | 0.62 J | 0.40 | 62 | 72 DJ | 58 | |
| 1,1-Dichloroethylene | 5 | 1.0 U | 0.29 J | 1.0 UJ | 3.3 U | 0.44 J | 0.38 J | 0.39 J | 0.67 J | 1.0 U | 0.41 J | 0.53 J | 0.31 | 120 | 94 DJ | 120 | |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.0 U | 1.0 UJ | 17 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 130 U | |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 6.7 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 50 U | |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,2-Dichloropropane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| 2-BU*anone (MEK) | 50 | 10 U | 1.4 J | 10 UJ | 33 U | 10 U* | 10 U | 5.0 U | 10 U | 10 U | 5.0 U | 10 U | 5.0 U | 200 U | 200 UDJ | 250 U | |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 UJ | 33 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 100 U | 100 UDJ | 250 U | |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 5.0 U | 5.0 UJ | 33 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 100 U | 100 UDJ | 250 U | |
| Acetone | 50* | 5.3 J | 7.1 J | 14 J | 33 U | 3.4 J | 4.7 J | 1.4 J | 10 U | 10 U | 5.0 U | 4.0 J | 9.6 J | 200 U | 200 UDJ | 250 U | |
| Benzene | 1 | 11 | 1.0 U | 0.41 J | 3.3 U | 1.0 U | 1.0 U | 0.28 J | 0.43 J | 1.0 U | 1.0 U | 0.45 J | 0.67 J | 20 U | 20 UDJ | 25 U | |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Bromoform | 50* | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U* | |
| Bromomethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Carbon disulfide | | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Carbon tetrachloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Chloroethane | 5 | 1.0 U | 0.3 J | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.2 | 20 U | 20 UDJ | 25 U |
| Chloroform | 7 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.6 J | 20 U | 20 UDJ | 25 U |
| Chloromethane | | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| cis-1,2-Dichloroethene | 5 | 20 | 46 | 36 J | 38 | 42 | 41 | 36 | 53 | 26 | 38 | 55 | 440 D | 310 | 550 DJ | 490 | |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Dichlorodifluoromethane | 5 | 10 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Ethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Methyl Acetate | | 2.5 U | 2.5 U | 2.5 U | 2.5 UJ | 33 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 50 U | 50 UDJ | 250 U | |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 9.1 DJ | 25 U | |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Styrene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 0.29 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 0.29 J | 1.0 U | 1.0 U | 0.28 J | 1.0 U | 1.1 | 20 U | 20 UDJ | 25 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Trichloroethene | 5 | 2.1 | 4.1 | 3.3 J | 2.7 J | 0.93 J | 1.2 | 0.76 J | 1.1 | 1.0 U | 0.72 J | 0.97 J | 19 | 20 U | 20 UDJ | 7.1 J | |
| Trichlorofluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 3.3 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 20 U | 20 UDJ | 25 U | |
| Vinyl chloride | 2 | 2.5 | 3.1 | 3.1 J | 3.0 J | 22 | 4.6 | 4.3 | 10 | 1.0 U | 5.6 | 7.5 | 44 | 140 | 92 DJ | 44 | |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 UJ | 6.7 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 40 U | 40 UDJ | 50 U | |
| Total VOCs | | 32.0 | 62.8 | 56.8 | 43.7 | 69.9 | 52.5 | 44.2 | 65.8 | 26.5 | 45.6 | 69.1 | 1394 | 1645 | 3717 | 2236 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 26.7 | 55.7 | 42.8 | 43.7 | 66.5 | 47.8 | 42.8 | 65.8 | 26.5 | 45.6 | 65.1 | 1384 | 1645 | 3717 | 2236 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-8 4/10/2017 | 4009-8 6/20/2017 | 4009-8 10/23/2017 | 4009-8 12/28/2017 | 4009-8 3/30/2018 | 4009-8 6/14/2018 | 4009-8 9/27/2018 | 4009-9 2/20/2014 | 4009-9 5/28/2014 | 4009-9 8/28/2014 | 4009-9 12/9/2014 | 4009-9 4/20/2015 | 4009-9 7/29/2015 | 4009-9 11/4/2015 | 4009-9 3/28/2016 |
|--|----------------------------------|---------------------|---------------------|----------------------|----------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| 1,1,1-Trichloroethane | 5 | 560 | 490 | 2500 | 2100 | 1100 | 800 | 3700 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 5.1 J | 10 U | 10 U | 16 | 13 | 40 U | 6.7 | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,1-Dichloroethane | 5 | 51 | 45 | 96 | 80 | 51 | 44 | 150 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 0.38 J | 1.0 U |
| 1,1-Dichloroethene | 5 | 31 | 80 | 80 | 70 | 47 | 34 | 160 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2,3-Trimethylbenzene | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 2.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,2-Dichloropropane | 1 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| 2-BU*anone (MEK) | 50 | 100 U* | 100 U | 50 | 100 U | 400 U* | 10 U | 400 U | 1.4 J | 10 U | 10 UJ | 10 U | 10 U | 10 U | 10.0 U | 10.0 U |
| 2-Hexanone | 50* | 50 U | 50 U | 50 U | 200 U | 10 U* | 200 U | 5.0 U | 5.0 U | 5.0 UJ | 10 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | 50 U | 50 U | 50 U | 200 U | 10 U* | 200 U | 5.0 U | 5.0 U | 5.0 UJ | 10 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 100 U | 100 U | 50 U | 100 U | 400 U | 10 U | 400 U | 12 | 3.3 J | 11 J | 10 U | 7.1 J | 10.0 U | 10.0 U | 3.5 J |
| Benzene | 1 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.3 J | 1.3 | 1.0 U | 3.4 | 2.5 | 1.0 U |
| Bromodichloromethane | 50 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Bromoform | 50* | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Bromomethane | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Carbon disulfide | | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Carbon tetrachloride | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Chlorobenzene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Chloroethane | 5 | 7.8 J | 3.7 J | 4.4 J | 10 U | 40 U | 5.2 | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Chloroform | 7 | 10 U | 10 U | 10 U | 10 U | 40 U | 0.66 J | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Chloromethane | | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 230 | 190 | 500 | 680 | 490 | 320 | 910 | 6.3 | 4.0 | 13 J | 7.0 | 1.9 | 15 | 21 | 4.0 |
| cis-1,3-Dichloropropene | 0.4 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Cyclohexane | | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Dibromochloromethane | 50 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Dichlorodifluoromethane | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Ethylbenzene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Methyl Acetate | 25 U | 25 U | 50 U | 10 U | 100 U | 10 U | 100 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 |
| Methyl Cyclohexane | | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Methylene Chloride | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Styrene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Tetrachloroethene | 5 | 10 U | 10 U | 3.3 J | 10 U | 40 U | 1.6 J | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Toluene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 1.2 J | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Trichloroethene | 5 | 150 | 160 | 300 | 300 | 300 | 190 | 580 | 0.5 J | 0.66 J | 0.67 J | 0.80 J | 0.52 J | 0.59 J | 0.52 J | 0.74 J |
| Trichlorofluoromethane | 5 | 10 U | 10 U | 10 U | 10 U | 40 U | 2.0 U | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Vinyl chloride | 2 | 30 | 15 | 19 | 24 | 40 U | 11 | 40 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U |
| Xylenes, Total | | 20 U | 20 U | 20 U | 20 U | 80 U | 4.0 U | 80 U | 1.0 U | 2.0 U | 2.0 UJ | 2.0 U |
| Total VOCs | | 1065 | 984 | 3519 | 3267 | 1988 | 1414 | 5500 | 20.2 | 7.96 | 26.0 | 9.10 | 9.52 | 19.0 | 24.4 | 8.24 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 1065 | 984 | 3519 | 3267 | 1988 | 1414 | 5500 | 8.24 | 4.66 | 15.0 | 9.10 | 2.42 | 19.0 | 24.4 | 4.74 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

— Concentration exceeds NYSDEC Class GA Standard

U*

J - Compound detected below the reporting limit or reported concentration is estimated

ug/L - Micrograms per Liter

B - Analyte detected in the method blank and sample

D- Result of dil'U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

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.

[^]- PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-9 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 | 4009-9 6/20/2017 Shallow ug/L | 4009-9 10/23/2017 Shallow ug/L | 4009-9 12/28/2017 Shallow ug/L | 4009-9 3/30/2018 Shallow ug/L | 4009-9 6/14/2018 Shallow ug/L | 4009-9 9/27/2018 Shallow ug/L | 4009-10 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 |
|--|----------------------------------|--|--|---|--|--|---|---|--|--|--|---|---|---|---|---|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.43 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-Dichloroethane | 5 | 0.39 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.40 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 10 U* | 10 U | 5.0 U | 5.0 U | 10 U* | 5.0 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| 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 |
| Acetone | 50* | 10 U | 10 U | 10 U | 3.5 J | 3.1 J | 2.2 J | 10 U | 10 U | 5.0 U | 3.6 J | 10 | 3.2 J | 7.5 J | 10 U | 9.2 J |
| Benzene | 1 | 1.0 U | 3.7 | 1.3 | 1.0 U | 1.0 U | 0.15 J | 1.0 U | 1.0 U | 1.0 U | 0.6 J | 0.53 J | 2.3 J | 26 | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| cis-1,2-Dichloroethene | 5 | 21 | 22 | 19 | 8.2 | 10 | 21 | 11 | 2.6 | 8.2 | 13 | 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 |
| 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 |
| 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 |
| Dichlorodifluoromethane | 5 | 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Trichloroethene | 5 | 0.65 J | 0.57 J | 0.81 J | 0.97 J | 1.0 U | 1.3 | 1.0 U | 1.0 U | 0.32 J | 0.73 J | 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 |
| Vinyl chloride | 2 | 1.0 U | 2.0 U | 2.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.25 J | 1.0 U |
| Xylenes, Total | | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 | 2.0 |
| Total VOCs | | 22.0 | 26.3 | 21.1 | 12.7 | 13.1 | 25.5 | 11.0 | 2.60 | 8.77 | 17.33 | 12.6 | 3.73 | 9.80 | 26.3 | 9.20 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 22.0 | 26.3 | 21.1 | 9.17 | 10.0 | 23.3 | 11.0 | 2.60 | 8.77 | 13.73 | 2.60 | 0.53 | 2.30 | 26.3 | 0.00 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-10 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 | 4009-10 4/10/2017 Shallow ug/L | 4009-10 6/20/2017 Shallow ug/L | 4009-10 10/23/2017 Shallow ug/L | 4009-10 12/28/2017 Shallow ug/L | 4009-10 3/30/2018 Shallow ug/L | 4009-10 6/14/2018 Shallow ug/L | 4009-10 9/27/2018 Shallow ug/L | 4009-11 2/20/2014 Deep ug/L | 4009-11 5/28/2014 Deep ug/L | |
|--|----------------------------------|---|---|---|---|---|--|---|---|--|--|---|---|---|--------------------------------------|--------------------------------------|-------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 0.41 J | 1.0 U | 1.0 U | 0.31 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U | 10 U* | 10 U | 50 U | 10 U | 10 U* | 50 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 |
| 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 |
| Acetone | 50* | 10 U | 10 U | 3.4 J | 10 U | 3.1 J | 10 U | 10 U | 5.0 U | 3.1 J | 7.8 J | 4.6 J |
| Benzene | 1 | 1.8 | 0.97 J | 1.0 U | 1.9 | 0.65 J | 3.4 | 1.0 U | 1.0 U | 0.45 J | 1.0 U | 1.0 U | 1.0 U | 0.51 J | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | 2.5 | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 50 U | 2.5 U | 2.5 U | 50 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Vinyl chloride | 2 | 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 |
| 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 |
| Total VOCs | | 1.80 | 0.97 | 0.00 | 1.90 | 0.65 | 3.40 | 3.40 | 0.00 | 3.96 | 0.00 | 0.00 | 0.00 | 0.31 | 3.61 | 7.80 | 4.60 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 1.80 | 0.97 | 0.00 | 1.90 | 0.65 | 3.40 | 0.00 | 0.00 | 0.86 | 0.00 | 0.00 | 0.00 | 0.31 | 0.51 | 0.00 | 0.00 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-11 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 | 4009-11 6/20/2017 Deep ug/L | 4009-11 10/23/2017 Deep ug/L | 4009-11 12/28/2017 Deep ug/L | 4009-11 3/30/2018 Deep ug/L | 4009-11 6/14/2018 Deep ug/L | |
|--|----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|-------|
| 1,1,1-Trichloroethane | 5 | 1.9 J | 1.0 U | 1.0 U | 1.0 U | 79 | 1.0 U | 57 | 87 | 1.0 U | 1.0 U | 170 | 65 | 1.0 U | 88 | 68 | |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 UJ | 1.0 U | 0.74 J | 1.2 | 1.0 U | 1.0 U | 2.9 | 1.4 | 1.0 U | 1.0 U | 1.2 | |
| 1,1,2-Trichloroethane | 1 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,1-Dichloroethane | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 20 | 0.76 J | 13 | 21 | 2.1 | 2.8 | 43 | 18 | 2.1 | 24 | 21 | |
| 1,1-Dichloroethene | 5 | 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 | 27 | 5.0 | 1.0 U | 7.2 | 6.4 | |
| 1,2,3-Trimethylbenzene | | 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,2,4-Trimethylbenzene | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,2-Dichlorobenzene | 3 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,2-Dichloroethane | 0.6 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 0.21 J | 1.0 U | 1.0 U | 1.0 U | |
| 1,2-Dichloropropane | 1 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,3-Dichlorobenzene | 3 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,4-Dichlorobenzene | 3 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 2-BU*anone (MEK) | 50 | 10 UJ | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | |
| 2-Hexanone | 50* | 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 | 5.0 U | 5.0 U | |
| 4-Methyl-2-pentanone (MIBK) | | 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 | 5.0 U | 5.0 U | |
| Acetone | 50* | 10 UJ | 10 U | 6.7 J | 10 U | 10 U | 4.4 J | 10 U | 10 U | 10 U | 10 U | 3.7 J | 3.6 J | 5.0 U | 4.5 J | 10 U | 5.0 U |
| Benzene | 1 | 1.0 UJ | 7.8 | 5.6 | 8.4 | 1.0 U | 18 | 1.0 U | 1.3 | 16 | 1.0 U | 15 | 1.0 U | 1.0 U | 6.5 | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Bromoform | 50* | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Bromomethane | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Carbon disulfide | | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Carbon tetrachloride | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Chlorobenzene | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Chloroethane | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.5 | 1.5 | 1.2 | 1.8 | 1.0 U | 1.0 U | 1.8 | 0.9 J | 1.0 U | 1.3 | 1.2 |
| Chloroform | 7 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Chloromethane | | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| cis-1,2-Dichloroethene | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 12 | 1.0 U | 8.8 | 15 | 1.0 U | 1.0 U | 35 | 15 | 1.0 U | 23 | 20 | |
| cis-1,3-Dichloropropene | 0.4 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Cyclohexane | | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Dibromochloromethane | 50 | 1.0 UJ | 1.0 U | 1.0 U* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Dichlorodifluoromethane | 5 | 10 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Ethylbenzene | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Isopropylbenzene (Cumene) | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Methyl Acetate | | 2.5 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 | 5.0 U | 2.5 U | 5.0 U | |
| Methyl Cyclohexane | | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Methylene Chloride | 5 | 1.0 UJ | 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Styrene | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Tetrachloroethene | 5 | 1.0 UJ | 1.0 U | 1.0 U* | 1.0 U | 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 U | 1.0 U | |
| Toluene | 5 | 1.0 UJ | 1.0 | 1.0 | 1.0 | 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| trans-1,3-Dichloropropene | 0.4 | 1.0 UJ | 1.0 U | 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.5 J | 1.0 U | 1.6 |
| Trichlorofluoromethane | 5 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| Vinyl chloride | 2 | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 19 | 1.0 U | 14 | 17 | 2.0 U | 1.1 | 37 | 13 | 1.0 U | 17 | 19 | |
| Xylenes, Total | | 2.0 UJ | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | |
| Total VOCs | | 1.90 | 8.80 | 13.3 | 9.40 | 140 | 25.5 | 98.1 | 150 | 18.9 | 23.5 | 322 | 119 | 13.1 | 162 | 138 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 1.90 | 8.80 | 6.60 | 9.40 | 140 | 21.1 | 98.1 | 150 | 18.9 | 318 | 119 | 8.60 | 162 | 138 | | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-11 9/27/2018 Deep ug/L | 4009-11A 2/20/2014 Shallow ug/L | 4009-11A 5/28/2014 Shallow ug/L | 4009-11A 8/28/2014 Shallow ug/L | 4009-11A 12/9/2014 Shallow ug/L | 4009-11A 4/20/2015 Shallow ug/L | 4009-11A 7/29/2015 Shallow ug/L | 4009-11A 11/4/2015 Shallow ug/L | 4009-11A 3/28/2016 Shallow ug/L | 4009-11A 6/30/2016 Shallow ug/L | 4009-11A 9/29/2016 Shallow ug/L | 4009-11A 11/28/2016 Shallow ug/L | 4009-11A 4/10/2017 Shallow ug/L | 4009-11A 6/20/2017 Shallow ug/L | 4009-11A 10/23/2017 Shallow ug/L |
|--|----------------------------------|--------------------------------------|--|--|--|--|--|--|--|--|--|--|---|--|--|---|
| 1,1,1-Trichloroethane | 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 |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-Dichloroethane | 5 | 7.0 | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 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 UJ | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU'anone (MEK) | 50 | 10 U | 10 U | 10 U | 10 UJ | 10 U | 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 |
| 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 |
| Acetone | 50* | 10 U | 9.8 J | 4.1 J | 10 J | 10 U | 7.6 J | 10 U | 4.6 J | 3.5 J | 10 U | 10 U | 4.1 J | 5.4 J | 5.0 U | 5.0 U |
| Benzene | 1 | 8.9 | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 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 UJ | 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 UJ | 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 UJ | 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 UJ | 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 UJ | 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 UJ | 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 UJ | 1.0 U | 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 |
| cis-1,2-Dichloroethene | 5 | 1.3 | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 1.0 U | 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (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 |
| Methyl Acetate | 2.5 | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Toluene | 5 | 0.52 J | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 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 UJ | 1.0 U | 1.0 U* | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 1.7 | 1.0 U | 1.0 U | 1.0 UJ | 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 UJ | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 19.4 | 9.80 | 4.10 | 10.0 | 0.00 | 7.60 | 0.00 | 0.00 | 4.60 | 3.50 | 0.00 | 0.00 | 4.10 | 5.40 | 0.00 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 19.4 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Notes:
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 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
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²-This is a duplicate sample from 4009-271
^{**}-Revised results due to mislabeling 27 and 29 clusters in field.
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 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-11A 12/28/2017 Shallow ug/L | 4009-11A 3/30/2018 Shallow ug/L | 4009-11A 6/14/2018 Shallow ug/L | 4009-11A 9/27/2018 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 | |
|--|----------------------------------|---|--|--|--|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------|
| 1,1,1-Trichloroethane | 5 | 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 |
| 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 50 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 | 4.0 | 6.5 | 1.0 U | 29 | 1.8 | 25 | 29 | 3.1 | 2.9 | 2.4 | 2.9 |
| 1,1-Dichloroethene | 5 | 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 |
| 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 | 110 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 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 | 50 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 | 44 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 2-BU'anone (MEK) | 50 | 10 U | 10 U | 10 U* | 5.0 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 |
| 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 | 220 U | 5.0 U | 25 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 | 220 U | 5.0 U | 25 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 10 U | 10 U | 5.0 U | 5.0 J | 5.8 J | 3.8 J | 7.0 J | 220 U | 7.1 J | 50 U | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 22 U | 2.7 | 2.9 J | 2.4 | 6.7 | 7.5 | 8.7 | 9.1 |
| 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 | 22 U | 1.0 U | 50 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 | 22 U* | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 0.83 J | 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 13 | 9.5 | 8.5 | 63 | 4.1 | 41 | 18 | 1.5 | 1.1 | 0.95 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 U | 1.0 U | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 5 | 10 U | 10 U | 10 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | 2.5 | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 220 U | 2.5 U | 13 | 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 0.50 JB | 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.8 J | 0.74 J | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 22 U | 1.0 U | 50 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 | 17 | 18 | 1.0 U | 64 | 1.0 U | 39 | 11 | 0.77 J | 0.81 J | 0.55 J | 0.60 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 | 22 U | 1.0 U | 50 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 | 6.1 | 3.7 | 0.9 J | 30 | 2.3 | 51 | 41 | 1.7 | 1.4 | 1.1 | 1.6 |
| 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 | 44 U | 2.0 U | 10 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 0.00 | 0.00 | 0.00 | 5.0 | 81.3 | 93.9 | 18.7 | 506 | 18.0 | 359 | 178 | 14.3 | 13.7 | 13.8 | 15.2 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 0.00 | 0.00 | 0.00 | 0.00 | 75.5 | 90.1 | 11.7 | 506 | 10.9 | 359 | 178 | 13.8 | 13.7 | 13.8 | 15.2 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-12 4/10/2017 | 4009-12 6/20/2017 | 4009-12 10/23/2017 | 4009-12 12/28/2017 | 4009-12 3/30/2018 | 4009-12 6/14/2018 | 4009-12 9/27/2018 | DUP-1 9/27/2018 | 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 |
|--|----------------------------------|----------------------|----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 1,1,1-Trichloroethane | 5 | 100 | 45 | 1.0 U | 330 | 45 | 1.0 U | 95 | 130 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 2 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1.9 J | 1.0 J | 1.0 U | 5.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 2 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 18 | 9.2 | 5.6 | 46 | 13 | 6.2 | 11 | 15 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 3.2 | 7.7 | 0.53 J | 16 | 5.0 | 0.54 J | 6.9 | 11 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,3-Trimethylbenzene | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U | 1.0 U | 1.0 UJ | 2.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 2-BU*anone (MEK) | 50 | 10 U* | 20 U | 5.0 U | 10 U | 5.0 U | 10 U | 5.0 U | 50 U | 10 U | 10 U | 10 UJ | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50* | 5.0 U | 10 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U* | 5.0 U | 25 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 10 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U* | 5.0 U | 25 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 5.5 J | 20 U | 3.3 J | 10 U | 10 U | 10 U | 4.4 J | 50 U | 8.4 J | 3.8 J | 10 U | 8.9 J | 10 U | 8.9 J | 10 U |
| Benzene | 1 | 3.6 | 2.8 | 2.5 | 0.51 J | 2.5 | 1.7 | 0.73 J | 5.0 U | 1.0 U | 0.42 J | 4.8 J | 1.0 | 0.96 J | 1.7 | 3.2 |
| Bromodichloromethane | 50 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromoform | 50* | 1.0 U | 2.0 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 | 1.0 U |
| Bromomethane | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon tetrachloride | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | 5 | 1.1 | 2.0 U | 1.0 U | 4.9 | 0.88 J | 1.0 U | 0.68 J | 5.0 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform | 7 | 1.0 U | 2.0 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 | 1.0 U |
| Chloromethane | | 1.0 U | 2.0 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 | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 11 | 8.7 | 2.0 | 62 | 15 | 2.0 | 25 | 43 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Cyclohexane | | 1.0 U | 2.0 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 | 1.0 U |
| Dibromochloromethane | 50 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 5 | 10 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | | 2.5 U | 5.0 U | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 13 | 2.5 U | 2.5 U | 2.5 U | 10 U | 2.5 U | 2.5 U | 2.5 U |
| Methyl Cyclohexane | | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methylene Chloride | 5 | 1.0 U | 1.0 J | 1.0 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Styrene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Toluene | 5 | 1.0 U | 2.0 U | 0.26 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U | 3.7 | 2.7 J | 0.55 J | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 3.0 | 10 | 1.9 | 69 | 14 | 1.6 | 25 | 38 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichlorofluoromethane | 5 | 1.0 U | 2.0 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 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 5.7 | 22 | 1.3 | 96 | 38 | 2.6 | 26 | 31 | 1.0 U | 1.0 U | 1.0 UJ | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylenes, Total | | 2.0 U | 4.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 10 U | 2.0 U | 2.0 U | 2.0 UJ | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 153 | 107 | 17.4 | 630 | 133 | 14.6 | 195 | 268 | 8.40 | 7.92 | 7.50 | 1.55 | 9.90 | 1.70 | 3.20 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 148 | 106 | 14.1 | 630 | 133 | 14.6 | 190 | 268 | 0.00 | 4.12 | 7.50 | 1.55 | 1.00 | 1.70 | 3.20 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
 ^This is a duplicate sample from 4009-12
 ^This is a duplicate sample from 4009-271
 **-Revised results due to mislabeling 27 and 29 clusters in field.
 ^ PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-13 3/28/2016 Deep ug/L | 4009-13 6/30/2016 Deep ug/L | 4009-13 9/29/2016 Deep ug/L | 4009-13 11/28/2016 Deep ug/L | 4009-13 4/26/2017 Deep ug/L | 4009-13 6/20/2017 Deep ug/L | 4009-13 10/23/2017 Deep ug/L | 4009-13 12/28/2017 Deep ug/L | 4009-13 3/30/2018 Deep ug/L | 4009-13 6/14/2018 Deep ug/L | 4009-13 9/27/2018 Deep ug/L | 4009-13A 2/20/2014 Shallow ug/L | 4009-13A 5/28/2014 Shallow ug/L | 4009-13A 8/28/2014 Shallow ug/L | 4009-13A 12/9/2014 Shallow ug/L |
|--|----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--|--|--|--|
| 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 |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 2.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (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 |
| 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 |
| 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 |
| Acetone | 50* | 10 U | 3.5 J | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 11 J | 10 U |
| Benzene | 1 | 3.2 | 2.4 | 1.9 | 1.9 | 0.41 J | 1.0 U | 0.2 J | 1.0 U | 1.0 U | 1.0 U | 0.44 J | 1.0 U | 0.58 J | 1.0 U | 0.96 J |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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* |
| Dichlorodifluoromethane | 5 | 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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* |
| 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 |
| 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 |
| 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* |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | | 3.20 | 5.90 | 1.90 | 1.90 | 0.41 | 4.20 | 3.60 | 0.00 | 0.00 | 0.00 | 0.00 | 3.44 | 8.40 | 0.58 | 11.0 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 3.20 | 2.40 | 1.90 | 1.90 | 0.41 | 0.00 | 0.20 | 0.00 | 0.00 | 0.00 | 0.44 | 0.00 | 0.58 | 0.00 | 0.96 |

Notes:
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 - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-13A 4/20/2015 Shallow ug/L | 4009-13A 7/29/2015 Shallow ug/L | 4009-13A 11/4/2015 Shallow ug/L | 4009-13A 3/28/2016 Shallow ug/L | 4009-13A 6/30/2016 Shallow ug/L | 4009-13A 9/29/2016 Shallow ug/L | 4009-13A 11/28/2016 Shallow ug/L | 4009-13A 4/26/2017 Shallow ug/L | 4009-13A 6/20/2017 Shallow ug/L | 4009-13A 10/23/2017 Shallow ug/L | 4009-13A 12/28/2017 Shallow ug/L | 4009-13A 3/30/2018 Shallow ug/L | 4009-13A 6/14/2018 Shallow ug/L | 4009-13A 9/27/2018 Shallow ug/L | 4009-14 2/20/2014 Deep ug/L |
|--|----------------------------------|--|--|--|--|--|--|---|--|--|---|---|--|--|--|--------------------------------------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 50 U | 10 U | 10 U | 50 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 |
| 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 |
| Acetone | 50* | 6.8 J | 10 U | 10 U | 3.0 J | 4.1 J | 2.6 J | 10 J | 10 U | 5.0 U | 3.6 J |
| Benzene | 1 | 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 | 1.0 U | 1.0 U | 0.90 J | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | 6.80 | 0.00 | 0.44 | 1.20 | 0.00 | 0.00 | 0.00 | 3.00 | 4.10 | 2.60 | 0.00 | 0.00 | 0.00 | 0.00 | 0.90 | 3.60 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 0.00 | 0.00 | 0.44 | 1.20 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

 - Concentration exceeds NYSDEC Class GA Standard

U*

J - Compound detected below the reporting limit or reported concentration is estimated

ug/L - Micrograms per Liter

B - Analyte detected in the method blank and sample

E - Estimated value

D- Result of d/U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

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.

[^]- PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-14 5/28/2014 Deep ug/L | 4009-14 8/28/2014 Deep ug/L | 4009-14 12/9/2014 Deep ug/L | 4009-14 4/20/2015 Deep ug/L | 4009-14 7/29/2015 Deep ug/L | 4009-14 11/4/2015 Deep ug/L | 4009-14 3/28/2016 Deep ug/L | 4009-14 6/30/2016 Deep ug/L | 4009-14 9/29/2016 Deep ug/L | 4009-14 11/28/2016 Deep ug/L | 4009-14^ 4/10/2017 Deep ug/L | 4009-14 6/20/2017 Deep ug/L | 4009-14 10/23/2017 Deep ug/L | 4009-14 12/28/2017 Deep ug/L | 4009-14 3/30/2018 Deep ug/L |
|--|----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | NS | 1.0 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 | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.0 U | 5.0 U | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | NS | 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 | 2.0 U | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 2-BU*anone (MEK) | 50 | 10 U | NS | 10.0 U | 5.0 U | 10 U | 10 U |
| 2-Hexanone | 50* | 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 | NS | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | 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 | NS | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 4.3 J | 11 | 10 U | 7.1 J | 10 U | 3.1 J | 10 U | 4.1 J | 10 U | 10 U | NS | 3.4 J | 3.3 J | 10 U | 10 U |
| Benzene | 1 | 1.0 U | 1.0 U | 0.54 J | 1.2 | 4.0 | 12 | 18 | 14 | 15 | 17 | NS | 9.2 | 11 | 12 | 13 |
| Bromodichloromethane | 50 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromoform | 50* | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromomethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon tetrachloride | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroform | 7 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloromethane | | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Cyclohexane | | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Dibromochloromethane | 50 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Ethylbenzene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | | 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 | NS | 2.5 U | 5.0 U | 2.5 U | 2.5 U |
| Methyl Cyclohexane | | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methylene Chloride | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Styrene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Toluene | 5 | 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 | NS | 1.0 U | 0.31 J | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichlorofluoromethane | 5 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Xylenes, Total | | 2.0 U | NS | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 5.21 | 12.0 | 1.46 | 9.30 | 5.20 | 16.3 | 18.8 | 18.1 | 15.6 | 17.0 | - | 12.6 | 14.6 | 12.0 | 13.0 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 0.91 | 1.00 | 1.46 | 2.20 | 5.20 | 13.2 | 18.8 | 14.0 | 15.6 | 17.0 | - | 9.2 | 11.3 | 12.0 | 13.0 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-14 6/14/2018 Deep ug/L | 4009-14 9/27/2018 Deep ug/L | 4009-15 2/20/2014 Deep ug/L | 4009-15 5/28/2014 Deep ug/L | 4009-15 8/28/2014 Deep ug/L | 4009-15 12/9/2014 Deep ug/L | 4009-15 4/20/2015 Deep ug/L | 4009-15 7/29/2015 Deep ug/L | 4009-15 11/4/2015 Deep ug/L | 4009-15 3/28/2016 Deep ug/L | 4009-15 6/30/2016 Deep ug/L | 4009-15 9/29/2016 Deep ug/L | 4009-15 11/28/2016 Deep ug/L | 4009-15 4/10/2017 Deep ug/L | 4009-15 6/20/2017 Deep ug/L |
|--|----------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 0.5 J | 0.53 J | 1.0 U | 1.0 U | 0.98 J |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 0.98 J |
| 1,2,3-Trimethylbenzene | | 1.0 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloropropane | 1 | 1.0 U | 1.0 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U |
| 2-BU ^a none (MEK) | 50 | 5.0 U | 5.0 U | 10 U | 10 U | 13 J | 10 U | 10 U | 10 U ^a |
| 2-Hexanone | 50* | 5.0 U ^a | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U ^a | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 5.0 U | 3.8 J | 7.5 J | 5.1 J | 7.2 J | 10 U | 5.8 J | 10 U | 4.9 J | 5.1 J | 9.1 J | 4.3 J | 8.4 J | 4.5 J | 9.5 J |
| Benzene | 1 | 11 | 1.6 | 1.0 U | 1.0 U | 0.5 J | 0.86 J | 1.8 | 9.1 | 8.0 | 9.1 | 8.5 | 7.8 | 9.0 | 0.97 J | 12 |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U |
| Bromoform | 50* | 1.0 U | 1.0 U | 1.0 U |
| Bromomethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | | 1.0 U | 1.0 U | 1.0 U |
| Carbon tetrachloride | 5 | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| Chloroform | 7 | 1.0 U | 1.0 U | 1.0 U |
| Chloromethane | | 1.0 U | 1.0 U | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U |
| Cyclohexane | | 1.0 U | 1.0 U | 1.0 U |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U ^a | 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 |
| Ethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | | 5.0 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 |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U |
| Methyl Tert BU ^a yl Ether | 10 | 1.0 U | 1.0 U | 1.0 U |
| Styrene | 5 | 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 |
| Toluene | 5 | 1.0 U | 0.61 J | 0.61 J | 0.72 J | 0.77 J | 1.0 | 0.84 J | 0.57 J | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 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 |
| Trichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U |
| Trichlorofluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 1.0 U | 1.0 U | 1.0 U |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 11.0 | 5.40 | 8.02 | 7.49 | 8.31 | 1.11 | 1.58 | 2.57 | 10.1 | 8.37 | 10.1 | 13.7 | 14.8 | 17.6 | 12.7 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 11.0 | 1.60 | 0.52 | 2.39 | 1.11 | 1.58 | 2.57 | 10.1 | 8.84 | 9.67 | 8.50 | 8.41 | 9.00 | 3.05 | 12.0 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
——— Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-15 10/23/2017 | 4009-15 12/28/2017 | 4009-15 3/30/2018 | 4009-15 6/14/2018 | 4009-15 9/27/2018 | 4009-16 2/20/2014 | 4009-16 5/28/2014 | 4009-16 8/28/2014 | 4009-16 12/9/2014 | 4009-16 4/20/2015 | 4009-16 7/29/2015 | 4009-16 11/4/2015 | 4009-16 3/28/2016 | 4009-16 6/30/2016 | 4009-16 9/29/2016 |
|--|----------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 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 |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-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 | 5.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | 2.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 5.0 U | 10 U | 10 U | 5.0 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 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 |
| Acetone | 50* | 9.7 | 5.1 J | 4.4 J | 5.0 U | 7.3 J | 5.9 J | 3.5 J | 7.1 J | 10 U | 6.0 J | 10 U | 10 U | 10 U | 4.5 J | 10 U |
| Benzene | 1 | 10 | 9.1 | 9.3 | 9.0 | 7.3 | 1.0 U | 1.0 U | 8.2 | 0.39 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 8.4 | 8.0 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 10 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| Toluene | 5 | 0.34 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.5 | 1.0 U | 0.69 J |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | | 20.0 | 14.2 | 13.7 | 9.00 | 14.6 | 5.90 | 3.50 | 16.8 | 0.39 | 6.00 | 0.00 | 0.00 | 0.00 | 12.9 | 8.69 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 10.3 | 9.10 | 9.30 | 9.00 | 7.30 | 0.00 | 0.00 | 9.70 | 0.39 | 0.00 | 0.00 | 0.00 | 0.00 | 8.40 | 8.69 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-16 11/28/2016 Deep ug/L | 4009-16^ 4/10/2017 Deep ug/L | 4009-16^ 6/20/2017 Deep ug/L | 4009-16 10/23/2017 Deep ug/L | 4009-16 12/28/2017 Deep ug/L | 4009-16 3/30/2018*** Deep ug/L | 4009-16 6/14/2018 Deep ug/L | 4009-16 9/27/2018 Deep ug/L | 4009-16A 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 | |
|--|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---|--------------------------------------|--------------------------------------|--|--|--|--|--|--|--|---|
| 1,1,1-Trichloroethane | 5 | 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 | |
| 1,1,2,2-Tetrachloroethane | 5 | 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 | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 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 | |
| 1,1,2-Trichloroethane | 1 | 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 | |
| 1,1-Dichloroethane | 5 | 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 | |
| 1,1-Dichloroethene | 5 | 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 | |
| 1,2,3-Trimethylbenzene | | 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 | |
| 1,2,4-Trichlorobenzene | 5 | 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 | |
| 1,2,4-Trimethylbenzene | 5 | 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 | |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | NS | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 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 | |
| 1,2-Dichlorobenzene | 3 | 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 | |
| 1,2-Dichloroethane | 0.6 | 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 | |
| 1,2-Dichloropropane | 1 | 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 | |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 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 | |
| 1,3-Dichlorobenzene | 3 | 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 | |
| 1,4-Dichlorobenzene | 3 | 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 | |
| 2-BU'anone (MEK) | 50 | 10 U | NS | 10.0 U | 5.0 U | 10 U | 10 U | 5.0 U | 10 U | 1.6 J | 10 U | |
| 2-Hexanone | 50* | 5.0 U | NS | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | NS | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | |
| Acetone | 50* | 10 U | NS | 4.2 J | 3.3 J | 10 U | 10 U | 5.0 U | 3.1 J | 12 | 4.0 J | 7.6 J | 10 U | 6.4 J | 10 U | 10 U | |
| Benzene | 1 | 1.8 | NS | 18.0 | 1.5 | 5.8 | 1.1 | 5.7 | 1.5 | 1.0 U | 1.9 | 7.2 | 8.0 | 5.7 | 11 | 3.0 | |
| Bromodichloromethane | 50 | 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 | |
| Bromoform | 50* | 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 | |
| Bromomethane | 5 | 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 | |
| Carbon disulfide | | 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 | |
| Carbon tetrachloride | 5 | 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 | |
| Chlorobenzene | 5 | 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 | |
| Chloroethane | 5 | 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 | |
| Chloroform | 7 | 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 | |
| Chloromethane | | 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 | |
| cis-1,2-Dichloroethene | 5 | 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 | |
| cis-1,3-Dichloropropene | 0.4 | 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 | |
| Cyclohexane | | 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 | |
| Dibromochloromethane | 50 | 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 | |
| Dichlorodifluoromethane | 5 | 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 | |
| Ethylbenzene | 5 | 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 | |
| Isopropylbenzene (Cumene) | 5 | 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 | |
| Methyl Acetate | 2.5 | U | NS | 2.5 | U | 5.0 | U | 2.5 | U | 2.5 | U | 5.0 | U | 2.5 | U | 2.5 | U |
| Methyl Cyclohexane | | 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 | |
| Methylene Chloride | 5 | 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 | |
| Methyl Tert Butyl Ether | 10 | 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 | |
| Styrene | 5 | 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 | |
| Tetrachloroethene | 5 | 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 | |
| Toluene | 5 | 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 | |
| trans-1,2-Dichloroethene | 5 | 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 | |
| trans-1,3-Dichloropropene | 0.4 | 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 | |
| Trichloroethene | 5 | 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 | |
| Trichlorofluoromethane | 5 | 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 | |
| Vinyl chloride | 2 | 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 | |
| Xylenes, Total | | 2.0 U | NS | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | |
| Total VOCs | | 1.80 | - | 22.2 | 4.80 | 5.80 | 1.10 | 5.70 | 4.60 | 13.6 | 5.90 | 14.8 | 8.00 | 12.1 | 11.0 | 3.00 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 1.80 | - | 18.0 | 1.50 | 5.80 | 1.10 | 5.70 | 1.50 | 1.60 | 1.90 | 7.20 | 8.00 | 5.70 | 11.0 | 3.00 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
 ^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.
 ^ PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID | NYSDEC GA Standard ug/L | 4009-16A 3/28/2016 Shallow ug/L | 4009-16A 6/30/2016 Shallow ug/L | 4009-16A 9/29/2016 Shallow ug/L | 4009-16A 11/28/2016 Shallow ug/L | 4009-16A 4/10/2017 Shallow ug/L | 4009-16A 6/20/2017 Shallow ug/L | 4009-16A 10/23/2017 Shallow ug/L | 4009-16A 12/28/2017 Shallow ug/L | 4009-16A 3/30/2018 Shallow ug/L | 4009-16A 6/14/2018 Shallow ug/L | 4009-16A 9/27/2018 Shallow ug/L | 4009-18 5/6/2015 Deep ug/L | 4009-18 7/29/2015 Deep ug/L | 4009-18 11/4/2015 Deep ug/L | 4009-18 3/28/2016 Deep ug/L |
|--|-------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------------|---------------------------------|---------------------------------|----------------------------------|----------------------------------|---------------------------------|---------------------------------|---------------------------------|----------------------------|-----------------------------|-----------------------------|-----------------------------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.31 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.86 J | 1.0 | 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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U* | 10 U | 5.0 U | 10 U | 10 U | 5.0 U | 10 U | 3.3 J | 10 U | 10 U |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 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 |
| Acetone | 50* | 10 U | 10 U | 10 U | 10 U | 10 U | 5.0 J | 3.8 J | 5.0 U | 10 U | 10 U | 5.0 U | 3.3 J | 10 U | 10 U | 10 U |
| Benzene | 1 | 4.2 | 0.49 J | 1.4 | 36 | 1.8 | | 1.0 U | 0.23 J | 1.0 U | 1.0 U | 0.56 J | 1.0 U | 1.0 U | 1.0 U | 0.41 J |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 0.58 J |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | 4.20 | 0.49 | 1.40 | 36.0 | 6.80 | 3.80 | 0.54 | 0.00 | 0.00 | 0.56 | 3.30 | 14.2 | 1.00 | 0.00 | 0.41 | 0.99 |
| Total VOCs (w/o Acetone or Methylene Chloride) | 4.20 | 0.49 | 1.40 | 36.0 | 1.80 | 0.00 | 0.54 | 0.00 | 0.56 | 0.00 | 4.16 | 1.00 | 0.00 | 0.41 | 0.99 | |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

■ - Concentration exceeds NYSDEC Class GA Standard

U* - J - Compound detected below the reporting limit or reported concentration is estimated

pg/L - Micrograms per Liter

B - Analyte detected in the method blank and sample

E - Estimated value

D- Result of d/U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

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.

[^]- PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-18 6/30/2016 Deep ug/L | 4009-18 9/29/2016 Deep ug/L | 4009-18 11/28/2016 Deep ug/L | 4009-18 4/10/2017 Deep ug/L | 4009-18 6/20/2017 Deep ug/L | 4009-18 10/23/2017 Deep ug/L | 4009-18 12/28/2017 Deep ug/L | 4009-18 3/30/2018 Deep ug/L | 4009-18 6/14/2018 Deep ug/L | 4009-18 9/27/2018 Deep ug/L | 4009-19 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 | |
|--|----------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|-------|
| 1,1,1-Trichloroethane | 5 | 0.83 J | 1.0 U | 1.0 U | 0.83 J | 1.0 U | 0.69 J | 1.0 U | 0.88 J | 0.57 J | 1.0 U | 1.0 U |
| 1,1,2,2-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 | |
| 1,1,2-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 | |
| 1,1,2-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 | |
| 1,1-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 | |
| 1,1-Dichloroethylene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | |
| 1,2,4-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 | |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,3,5-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 | |
| 1,3-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 | |
| 1,4-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 | |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 10 U* | 10 U | 5.0 U | 5.0 U | 10 U | 10 U | 5.0 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 | |
| 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 | |
| Acetone | 50* | 10 U | 10 U | 10 U | 6.4 J | 4.1 J | 2.9 J | 10 U | 10 U | 5.0 U | 5.0 U | 8.5 J | 10 U | 10 U | 10 U | 10 U | |
| Benzene | 1 | 1.0 U | 0.47 J | 1.7 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.7 | 1.0 | 1.0 U | 1.0 U | 1.0 U | |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 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 | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 1.0 U | 2.5 U | 1.0 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| Total VOCs | 0.83 | 0.47 | 1.70 | 7.23 | 4.10 | 3.59 | 0.00 | 0.69 | 0.00 | 0.88 | 0.57 | 0.00 | 11.2 | 1.00 | 0.00 | 0.00 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | 0.83 | 0.47 | 1.70 | 0.83 | 0.00 | 0.69 | 0.00 | 0.88 | 0.57 | 0.00 | 2.70 | 1.00 | 0.00 | 0.00 | 0.00 | 0.00 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dilution sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
¹This is a duplicate sample from 4009-12
²This is a duplicate sample from 4009-271
^{**}-Revised results due to mislabeling 27 and 29 clusters in field.
^A- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-21 11/28/2016 Deep ug/L | 4009-21^ 4/10/2017 Deep ug/L | 4009-21^ 6/20/2017 Deep ug/L | 4009-21 10/23/2017 Deep ug/L | 4009-21 12/28/2017 Deep ug/L | 4009-21 3/30/2018 Deep ug/L | 4009-21 6/14/2018 Deep ug/L | 4009-21 9/27/2018 Deep ug/L | 4009-22 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 |
|--|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| 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 |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-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 |
| 1,1-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 |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 1.0 U | 1.0 U |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 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 | 2.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | NA | 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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U* | 10 U | 5.0 U | 10 U | 10 U | 5.0 U | 5.0 U | 5.0 U* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 10 U | 10 U |
| 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 |
| 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 |
| Acetone | 50* | 10 U | 7.1 J | 4.5 J | 3.0 J | 10 U | 10 U | 5.0 U | 10 U | 3.1 J | 12 | 10 U | 11 | 10 U | 6.5 J | 10.0 U |
| Benzene | 1 | 19 | 24 | 25 | 18 | 17 | 11 | 5.3 | 0.7 J | 0.7 J | 0.92 J | 0.98 J | 0.82 J | 1.2 | 1.1 | |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Dichlorodifluoromethane | 5 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | 2.5 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 1.0 U | 2.5 U | 1.0 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 0.44 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| Toluene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.7 J | 0.6 J | 1.1 | 0.83 J | 0.64 J | 0.93 J |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | | 19.0 | 31.1 | 29.9 | 21.0 | 18.0 | 17.0 | 11.0 | 5.30 | 4.44 | 13.2 | 2.02 | 12.8 | 1.46 | 8.63 | 2.20 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 19.0 | 24.0 | 25.0 | 18.0 | 18.0 | 17.0 | 11.0 | 5.30 | 1.34 | 1.24 | 2.02 | 1.81 | 1.46 | 2.13 | 2.20 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 ■ Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
 ^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.
 ^ PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-27D 6/14/2018 Deep ug/L | 4009-27D 9/27/2018 Deep ug/L | 4009-28 2/20/2014 Deep ug/L | 4009-28 5/28/2014 Deep ug/L | 4009-28 8/28/2014 Deep ug/L | 4009-28 12/9/2014 Deep ug/L | 4009-28 4/20/2015 Deep ug/L | 4009-28 7/29/2015 Deep ug/L | 4009-28 11/4/2015 Deep ug/L | 4009-28 3/28/2016 Deep ug/L | 4009-28 6/30/2016 Deep ug/L | 4009-28 9/29/2016 Deep ug/L | 4009-28 11/28/2016 Deep ug/L | 4009-28 4/10/2017 Deep ug/L | 4009-28 6/20/2017 Deep ug/L | |
|--|----------------------------------|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|-----|
| 1,1,1-Trichloroethane | 5 | 1.0 | U | 1.0 | U | 1.3 | 2.7 | 1.0 | U | 3.0 | 2.9 | 2.9 | 2.3 | 1.9 | 2.5 | 2.5 | 2.5 |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-Dichloroethane | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 0.28 | J | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,1-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | J | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,3-Trimethylbenzene | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 5.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 | 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 | 2.0 | 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 5.0 | 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 |
| 4-Methyl-1-pentanone (MIBK) | | 5.0 | U* | 5.0 | U | 5.0 | U | 5.0 | U |
| Acetone | 50* | 5.0 | U | 3.6 | J | 7.9 | J | 3.7 | J | 6.8 | J | 10 | U | 6.1 | J | 10 | U |
| Benzene | 1 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| 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 |
| 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 |
| 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 |
| Carbon disulfide | | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 0.22 | J | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| cis-1,2-Dichloroethene | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 0.25 | J | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U | 1.0 | U |
| Methyl Acetate | | 5.0 | U | 2.5 | U | 2.5 | U | 2.5 | U | 10 | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Trichloroform/methane | 5 | 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 |
| 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 |
| Total VOCs | | 0.00 | 3.60 | 9.20 | 6.71 | 6.80 | 3.53 | 9.22 | 2.90 | 0.00 | 2.90 | 2.50 | 2.50 | 2.50 | 14.0 | 8.40 | |
| Total VOCs (w/o Acetone or Methylen Chloride) | | 0.00 | 0.00 | 1.30 | 3.01 | 0.00 | 3.53 | 3.12 | 2.90 | 0.00 | 2.90 | 2.50 | 2.50 | 2.50 | 4.70 | 4.00 | |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

■ Concentration exceeds NYSDEC Class GA Standard

U* - J - Compound detected below the reporting limit or reported concentration is estimated

pg/L - Micrograms per Liter

B - Analyte detected in the method blank and sample

E - Estimated value

D- Result of dil'U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

¹This is a duplicate sample from 4009-12

²This is a duplicate sample from 4009-271

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

[^]- PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-28 10/23/2017 | 4009-28 12/28/2017 | 4009-28 3/30/2018 | 4009-28 6/14/2018 | 4009-28 9/27/2018 | 4009-29S 2/20/2014 | 4009-29S 5/28/2014 | 4009-29S 8/28/2014 | 4009-29S 12/9/2014 | 4009-29S 4/20/2015 | 4009-29S 7/29/2015 | 4009-29S 11/4/2015 | 4009-29S 3/28/2016 | 4009-29S 6/30/2016 | 4009-29S 9/29/2016 | |
|--|----------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----|
| 1,1,1-Trichloroethane | 5 | 2.5 | 1.0 U | 2.9 | 2.5 | 3.2 | 710 D | 650 | 1000 DJ | 480 | 830 | 850 | 760 | 800 D | 460 | 430 | |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 12 | 10 U | 7.1 DJ | 17 U | 8.7 J | 7.3 J | 20 U | 7.1 | 20 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 | 17 U | 20 U | 20 U | 20 U | 0.49 J | 20 U | 1.0 U | |
| 1,1-Dichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 130 D | 35 | 46 D | 29 | 38 | 55 | 49 | 58 | 69 | 52 | |
| 1,1-Dichloroethene | 5 | 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 | |
| 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 | 10 U | 83 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 1.0 U | |
| 1,2,4-Trimethylbenzene | 5 | 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 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 33 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 17 U | 20 U | 20 U | 20 U | 20 U | 1.0 U | |
| 2-BU*anone (MEK) | 50 | 5.0 U | 5.0 U | 10 U | 10 U | 5.0 U | 10 U | 10 U | 100 U | 100 U | 170 U | 200 U | 200 U | 200 U | 200 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 | 50 U | 50 U | 170 U | 100 U | 100 U | 100 U | 100 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 | 50 U | 50 U | 170 U | 100 U | 100 U | 100 U | 100 U | 5.0 U | |
| Acetone | 50* | 1.7 J | 10 U | 10 U | 5.0 U | 3.6 J | 6.0 J | 100 U | 100 U | 170 U | 200 U | 10 U | |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.61 J | 1.0 U | 1.0 U | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 U | 1.0 U | |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 0.69 J | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 U | 1.0 U | |
| cis-1,2-Dichloroethene | 5 | 0.35 J | 1.0 U | 1.0 U | 0.41 J | 1.0 U | 260 D | 340 | 410 D | 270 | 320 | 480 | 310 | 390 D | 190 | 200 | |
| 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 1.0 U | |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 10 U | 17 U | 20 U | 20 U | 20 U | 1.0 U | |
| Methyl Acetate | | 5.0 U | 2.5 U | 2.5 U | 5.0 U | 2.5 U | 2.5 U | 25 U | 25 U | 170 U | 20 U | 20 U | 50 U | 50 U | 2.5 U | 1.0 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 10 U | 5.6 J* | 20 U | 20 U | 0.58 J | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 10 U | 10 U | 27 D | 3.5 J | 20 U | 20 U | 9.2 | |
| 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 | 10 U | 10 U | 17 U | 20 U | 20 U | 20 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 | 43 | 15 | 42 D | 16 J | 24 | 65 | 82 | 120 D | 78 |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 20 U | 20 U | 33 U | 40 U | 40 U | 40 U | 40 U | 2.0 U | |
| Total VOCs | | 4.55 | 0.00 | 2.90 | 3.52 | 6.80 | 1560 | 1129 | 1594 | 837 | 1257.7 | 1587 | 1285 | 1434 | 830 | 804 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 2.85 | 0.00 | 2.90 | 3.52 | 3.20 | 1554 | 1129 | 1594 | 832 | 1257.7 | 1587 | 1285 | 1434 | 830 | 804 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

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

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U*
 J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-29I 3/28/2016 | 4009-29I 6/30/2016 | 4009-29I 9/29/2016 | 4009-29I 11/28/2016 | 4009-29I** 4/10/2017 | 4009-29I 6/20/2017 | 4009-29I 10/23/2017 | 4009-29I 12/28/2017 | 4009-29I 3/30/2018 | 4009-29I 6/14/2018 | 4009-29I 9/27/2018 | DUP-2 9/27/2018 | 4009-29D 2/20/2014 | 4009-29D 5/28/2014 | 4009-29D 8/28/2014 |
|--|----------------------------------|-----------------------|-----------------------|-----------------------|------------------------|-------------------------|-----------------------|------------------------|------------------------|-----------------------|-----------------------|-----------------------|--------------------|-----------------------|-----------------------|-----------------------|
| 1,1,1-Trichloroethane | 5 | 1400 D | 1200 | 1.0 U | 2.0 U | 1000 | 1200 | 970 | 1100 | 1200 | 620 | 990 | 1000 | 1.0 U | 80 | 1200 DJ |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 14 | 15 J | 1.0 U | 2.0 U | 12 | 14 J | 11 | 16 J | 20 U | 7.5 | 20 U | 40 U | 1.0 U | 1.1 | 14 |
| 1,1,2-Trichloroethane | 1 | 0.57 J | 25 U | 1.0 U | 2.0 U | 0.60 J | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 0.65 J |
| 1,1-Dichloroethane | 5 | 69 | 71 | 4.4 | 3.9 | 89 | 82 | 72 | 92 | 93 | 50 | 84 | 90 | 1.1 | 16 | 150 DJ |
| 1,1-Dichloroethene | 5 | 77 | 93 | 1.9 | 2.0 U | 80 | 190 | 62 | 71 | 95 | 50 | 82 | 97 | 1.0 U | 12 | 130 DJ |
| 1,2,3-Trimethylbenzene | | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 0.72 J |
| 1,2-Dichloropropane | 1 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| 2-BU*anone (MEK) | 50 | 10 U | 250 U | 10 U | 20 U | 10 U* | 200 U | 25 U | 200 U | 200 U | 10 U | 200 U | 400 U | 10 U | 10 U | 10 U |
| 2-Hexanone | 50* | 5.0 U | 130 U | 5.0 U | 10 U | 5.0 U | 100 U | 25 U | 100 U | 100 U | 10 U* | 100 U | 200 U | 5.0 U | 5.0 U | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 130 U | 5.0 U | 10 U | 5.0 U | 100 U | 25 U | 100 U | 100 U | 10 U* | 100 U | 200 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 10 U | 250 U | 5.6 J | 6.1 J | 5.2 J | 200 U | 25 U | 200 U | 200 U | 10 U | 200 U | 400 U | 6.9 J | 10 U | 10 U |
| Benzene | 1 | 0.48 J | 25 U | 75 | 120 | 0.71 J | 20 U | 0.57 J | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 0.72 J |
| Bromodichloromethane | 50 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Bromoform | 50* | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Bromomethane | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon disulfide | | 1.0 U | 25 U | 0.35 J | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Carbon tetrachloride | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Chlorobenzene | 5 | 1.3 | 25 U | 1.0 U | 2.0 U | 1.1 | 20 U | 1.7 J | 20 U | 20 U | 0.91 J | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | 5 | 2.7 | 25 U | 51 | 29 | 3.9 | 20 U | 3.6 J | 20 U | 20 U | 2.2 | 20 U | 40 U | 1.0 U | 1.4 | 8.8 DJ |
| Chloroform | 7 | 0.77 J | 25 U | 1.0 U | 2.0 U | 0.67 J | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 0.83 J | |
| Chloromethane | | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | |
| cis-1,2-Dichloroethene | 5 | 420 D | 340 | 45 | 41 | 330 | 360 | 330 | 390 | 400 | 250 | 380 | 430 | 1.4 | 25 | 400 DJ |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Cyclohexane | | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | |
| Dibromochloromethane | 50 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Dichlorodifluoromethane | 5 | 1.9 | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.5 |
| Ethylbenzene | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | | 2.5 U | 63 U | 2.5 U | 5.0 U | 2.5 U | 50 U | 25 U | 50 U | 50 U | 10 U | 50 U | 100 U | 2.5 U | 2.5 U | |
| Methyl Cyclohexane | | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | |
| Methylene Chloride | 5 | 0.60 J | 25 U | 1.0 U | 2.0 U | 1.0 U | 15 J | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Styrene | 5 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Tetrachloroethene | 5 | 1.8 | 25 U | 1.0 U | 2.0 U | 1.4 | 20 U | 1.8 J | 20 U | 20 U | 1.1 J | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 |
| Toluene | 5 | 1.0 U | 25 U | 2.2 | 1.7 J | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 1.3 | 25 U | 1.0 U | 2.0 U | 1.2 | 20 U | 1.8 J | 20 U | 20 U | 0.95 J | 20 U | 40 U | 1.0 U | 1.0 U | 1.8 |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 450 D | 370 | 3.5 | 2.0 | 340 | 390 | 290 | 410 | 420 | 200 | 400 | 410 | 1.8 | 17 | 400 DJ |
| Trichlorofluoromethane | 5 | 0.92 J | 25 U | 1.0 U | 2.0 U | 1.0 U | 20 U | 5.0 U | 20 U | 20 U | 2.0 U | 20 U | 40 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 94 | 85 | 2.0 | 2.0 | 130 | 110 | 96 | 120 | 92 | 63 | 79 | 79 | 4.7 | 12 | 170 DJ |
| Xylenes, Total | | 2.0 U | 50 U | 2.0 U | 4.0 U | 2.0 U | 40 U | 10 U | 40 U | 40 U | 4.0 U | 40 U | 80 U | 2.0 U | 2.0 U | |
| Total VOCs | | 2536 | 2174 | 191 | 206 | 1995 | 2361 | 1840 | 2199 | 2300 | 1246 | 2015 | 2106 | 15.9 | 165 | 2480 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 2536 | 2174 | 185 | 200 | 1990 | 2346 | 1840 | 2199 | 2300 | 1246 | 2015 | 2106 | 9.00 | 165 | 2480 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

U*

J - Compound detected below the reporting limit or reported concentration is estimated

ug/L - Micrograms per Liter

E - Estimated value

D- Result of dil'U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

¹This is a duplicate sample from 4009-12

²This is a duplicate sample from 4009-271

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

[^]- PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-29D 12/9/2014 Deep ug/L | 4009-29D 4/20/2015 Deep ug/L | 4009-29D 7/29/2015 Deep ug/L | 4009-29D 11/4/2015 Deep ug/L | 4009-29D 3/28/2016 Deep ug/L | 4009-29D 6/30/2016 Deep ug/L | 4009-29D 9/29/2016 Deep ug/L | 4009-29D 11/28/2016 Deep ug/L | 4009-29D** 4/10/2017 Deep ug/L | 4009-29D 6/20/2017 Deep ug/L | 4009-29D 10/23/2017 Deep ug/L | 4009-29D 12/28/2017 Deep ug/L | 4009-29D 3/30/2018 Deep ug/L | 4009-29D 6/14/2018 Deep ug/L | 4009-29D 9/27/2018 Deep ug/L | |
|--|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|---|---------------------------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|----|
| 1,1,1-Trichloroethane | 5 | 170 | 290 | 30 | 14 | 23 | 16 | 14 | 21 | 270 | 31 | 7.6 | 13 | 280 | 41 | 150 | |
| 1,1,2,2-Tetrachloroethane | 5 | 5.7 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 | 5.0 U | |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 2.9 J | 3.6 J | 1.0 U | 1.0 U | 0.40 J | 1.0 U | 1.0 U | 1.0 U | 4.2 | 1.0 U | 1.0 U | 1.0 U | 3.5 | 0.67 J | 5.0 U | | |
| 1,1,2-Trichloroethane | 1 | 5.7 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 | 5.0 U | |
| 1,1-Dichloroethane | 5 | 27 | 51 | 12 | 4.2 | 5.5 | 4.0 | 3.7 | 6.3 | 44 | 8.1 | 1.8 | 2.9 | 38 | 11 | 29 | |
| 1,1-Dichloroethene | 5 | 27 | 29 | 5.7 | 2.0 | 2.0 | 1.3 | 1.1 | 2.8 | 26 | 2.0 | 0.37 J | 0.88 J | 42 | 5.3 | 13 | |
| 1,2,3-Trimethylbenzene | 29 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 | 5.0 U | |
| 1,2,4-Trichlorobenzene | 5 | 5.7 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 | 5.0 U | |
| 1,2,4-Trimethylbenzene | 5 | 5.7 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 | 5.0 U | |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 11 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 | 5.0 U | |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 5.7 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 | 5.0 U | |
| 1,2-Dichlorobenzene | 3 | 5.7 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 | 5.0 U | |
| 1,2-Dichloroethane | 0.6 | 5.7 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 | 5.0 U | |
| 1,2-Dichloropropane | 1 | 5.7 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 | 5.0 U | |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 5.7 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 | 5.0 U | |
| 1,3-Dichlorobenzene | 3 | 5.7 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 | 5.0 U | |
| 1,4-Dichlorobenzene | 3 | 5.7 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 | 5.0 U | |
| 2-BU*anone (MEK) | 50 | 57 U | 50 U | 10 U | 10 U* | 10 U | 2.3 J | 10 U | 10 U* | 50 U | | |
| 2-Hexanone | 50* | 57 U | 25 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U* | 25 U | |
| 4-Methyl-2-pentanone (MIBK) | | 57 U | 25 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U* | 25 U | |
| Acetone | 50* | 57 U | 50 U | 10 U | 4.5 J | 3.5 J | 1.3 J | 10 U | 10 U | 5.0 U | 50 U | |
| Benzene | 1 | 5.7 U | 5.0 U | 0.70 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | |
| Bromodichloromethane | 50 | 5.7 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 | 5.0 U | |
| Bromoform | 50* | 5.7 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 | 5.0 U | |
| Bromomethane | 5 | 5.7 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 | 5.0 U | |
| Carbon disulfide | | 5.7 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 | 5.0 U | |
| Carbon tetrachloride | 5 | 5.7 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 | 5.0 U | |
| Chlorobenzene | 5 | 5.7 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 | 5.0 U | |
| Chloroethane | 5 | 5.7 U | 2.5 J | 1.0 U | 1.2 | 1.2 | 1.5 | 2.0 | 1.0 U | 4.4 | 2.2 | 3.0 | 2.3 J | 2.7 | 3.0 | 3.6 J | |
| Chloroform | 7 | 5.7 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 | 5.0 U | |
| Chloromethane | | 5.7 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 | 5.0 U | |
| cis-1,2-Dichloroethene | 5 | 150 | 210 | 37 | 8.0 | 9.9 | 5.7 | 5.4 | 9.5 | 130 | 10 | 1.5 | 3.3 | 180 | 26 | 77 | |
| cis-1,3-Dichloropropene | 0.4 | 5.7 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 | 5.0 U | |
| Cyclohexane | | 5.7 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 | 5.0 U | |
| Dibromochloromethane | 50 | 5.7 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 | 5.0 U | |
| Dichlorodifluoromethane | 5 | 5.7 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 | 5.0 U | |
| Ethylbenzene | 5 | 5.7 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 | 5.0 U | |
| Isopropylbenzene (Cumene) | 5 | 5.7 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 | 5.0 U | |
| Methyl Acetate | | 57 U | 13 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 | 13 U | |
| Methyl Cyclohexane | | 5.7 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 | 5.0 U | |
| Methylene Chloride | 5 | 2.0 J* | 5.0 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 | 5.0 U | |
| Methyl Tert Butyl Ether | 10 | 5.7 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 | 5.0 U | |
| Styrene | 5 | 5.7 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 | 5.0 U | |
| Tetrachloroethene | 5 | 5.7 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 | 5.0 U | |
| Toluene | 5 | 5.7 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 | 5.0 U | |
| trans-1,2-Dichloroethene | 5 | 5.7 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.9 J | 1.0 U | 5.0 U | |
| trans-1,3-Dichloropropene | 0.4 | 5.7 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 | 5.0 U | |
| Trichloroethene | | 5 | 26 | 20 | 0.78 J | 0.94 J | 3.3 | 2.0 | 1.8 | 1.7 | 61 | 7.2 | 2.0 | 3.5 | 120 | 10 | 16 |
| Trichlorofluoromethane | | 5 | 5.7 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 | 5.0 U | |
| Vinyl chloride | 2 | 34 | 55 | 7.8 | 7.2 | 8.3 | 7.5 | 6.5 | 15 | 73 | 11 | 8.4 | 9.4 | 72 | 17 | 35 | |
| Xylenes, Total | | 11 U | 10 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 | 10 U | |
| Total VOCs | | 439 | 674 | 94.0 | 37.5 | 54.1 | 38.0 | 34.5 | 56.3 | 613 | 75.0 | 28.3 | 35.3 | 739 | 114 | 324 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 437 | 674 | 94.0 | 37.5 | 53.6 | 38.0 | 34.5 | 56.3 | 613 | 71.5 | 27.0 | 35.3 | 739 | 114 | 324 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of d/U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
 ^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.
 ^PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-30 4/20/2015 | 4009-30 7/29/2015 | 4009-30 11/4/2015 | 4009-30 3/28/2016 | 4009-30 6/30/2016 | 4009-30 9/29/2016 | 4009-30 11/28/2016 | 4009-30^ 4/10/2017 | 4009-30^ 6/20/2017 | 4009-30 10/23/2017 | 4009-30 12/28/2017 | 4009-30 3/30/2018 | 4009-30 6/14/2018 | 4009-30 9/27/2018 | 4009-30A 4/20/2015 Shallow ug/L |
|--|----------------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|----------------------|----------------------|----------------------|--|
| 1,1,1-Trichloroethane | 5 | 0.98 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 1,1,2,2-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 | |
| 1,1,2-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 | |
| 1,1,2-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 | |
| 1,1-Dichloroethane | 5 | 0.86 J | 0.82 J | 0.52 J | 0.91 J | 0.65 J | 0.52 J | 0.93 J | 1.3 | 0.8 J | 0.77 J | 0.66 J | 0.71 J | 0.61 J | 1.0 U | |
| 1,1-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 | |
| 1,2,3-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 | |
| 1,2,4-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 | |
| 1,2,4-Trimethylbenzene | 5 | 1.0 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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,2-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 | |
| 1,3,5-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 | |
| 1,3-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 | |
| 1,4-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 | |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U* | 10 U | 50 U | 50 U | 100 U* | 50 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 | |
| 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 | |
| Acetone | 50* | 7.0 J | 10 U | 10 U | 7.3 J | 4.9 J | 10 U | 7.2 J | 5.3 J | 5.0 U | 10.0 U | 10.0 U | 5.0 U | 3.5 J | 6.9 J | |
| Benzene | 1 | 1.0 U | 1.0 U | 0.44 J | 1.0 U | 0.44 J | 0.56 J | 1.0 | 1.0 U | 1.1 | 2.5 | 6.4 | 5.3 | 4.1 | 33 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | |
| 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 | 5.0 U | 2.5 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 | |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U | 0.49 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| Total VOCs | 8.84 | 0.82 | 0.96 | 1.40 | 8.39 | 5.98 | 1.93 | 8.50 | 7.19 | 3.55 | 7.06 | 6.01 | 4.71 | 36.5 | 7.65 | |
| Total VOCs (w/o Acetone or Methylene Chloride) | 1.84 | 0.82 | 0.96 | 0.91 | 1.09 | 1.08 | 1.93 | 1.30 | 1.89 | 3.55 | 7.06 | 6.01 | 4.71 | 33.0 | 0.75 | |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
■ - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of dil'U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
 ^This is a duplicate sample from 4009-12
 ^This is a duplicate sample from 4009-271
 **-Revised results due to mislabeling 27 and 29 clusters in field.
 ^ PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-30A 7/29/2015 Shallow ug/L | 4009-30A 11/4/2015 Shallow ug/L | 4009-30A 3/28/2016 Shallow ug/L | 4009-30A 6/30/2016 Shallow ug/L | 4009-30A 9/29/2016 Shallow ug/L | 4009-30A 11/28/2016 Shallow ug/L | 4009-30A 4/10/2017 Shallow ug/L | 4009-30A 6/20/2017 Shallow ug/L | 4009-30A 10/23/2017 Shallow ug/L | 4009-30A 12/28/2017 Shallow ug/L | 4009-30A 3/30/2018 Shallow ug/L | 4009-30A 6/14/2018 Shallow ug/L | 4009-30A 9/27/2018 Shallow ug/L |
|--|----------------------------------|--|--|--|--|--|---|--|--|---|---|--|--|--|
| 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 |
| 1,1,2,2-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 |
| 1,1,2-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 |
| 1,1,2-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 |
| 1,1-Dichloroethane | 5 | 1.0 U | 0.51 J | 0.63 J | 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 |
| 1,2,3-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 |
| 1,2,4-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 |
| 1,2,4-Trimethylbenzene | 5 | 1.0 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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,2-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 |
| 1,3,5-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 |
| 1,3-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 |
| 1,4-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 |
| 2-BU*anone (MEK) | 50 | 10 U | 10 U* | 10 U | 50 U | 50 U | 10 U* | 50 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 |
| 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 |
| Acetone | 50* | 10 U | 5.6 J | 3.6 J | 5.0 U | 10 U | 10 U | 5.0 U | 3.1 J |
| Benzene | 1 | 2.5 | 0.60 J | 2.2 | 0.43 J | 1.0 U | 1.0 U | 1.0 U | 0.23 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Acetate | 2.5 | 2.5 U | 2.5 U | 2.5 U | 5.0 U | 2.5 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Total VOCs | | 2.50 | 0.60 | 2.20 | 0.43 | 0.51 | 0.63 | 5.60 | 3.60 | 0.23 | 0.00 | 0.00 | 0.00 | 3.10 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 2.50 | 0.60 | 2.20 | 0.43 | 0.51 | 0.63 | 0.00 | 0.00 | 0.23 | 0.00 | 0.00 | 0.00 | 0.00 |

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
■ - Concentration exceeds NYSDEC Class GA Standard
 U* - J - Compound detected below the reporting limit or reported concentration is estimated
 ug/L - Micrograms per Liter
 B - Analyte detected in the method blank and sample
 E - Estimated value
 D- Result of d/U*ed sample shown
 M - Manual integrated compound
 * - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits
 Matrix Spike (MS) or MS Duplicate is outside acceptable limits
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.
[^]- PDB was compromised when sample was collected
 NS - Not Sampled
 NA - Not Analyzed
 *** - 4009-16 was sampled via low flow on this date

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | Well 1-1 4/20/2015 Deep ug/L | Well 1-1 7/29/2015 Deep ug/L | Well 1-1 11/4/2015 Deep ug/L | Well 1-1 3/28/2016 Deep ug/L | Well 1-1 6/30/2016 Deep ug/L | Well 1-1 9/29/2016 Deep ug/L | Well 1-1 11/28/2016 Deep ug/L | Well 1-1^ 4/10/2017 Deep ug/L | Well 1-1 6/20/2017 Deep ug/L | Well 1-1 10/23/2017 Deep ug/L | Well 1-1 12/28/2017 Deep ug/L | Well 1-1 3/30/2018 Deep ug/L | Well 1-1 6/14/2018 Deep ug/L | Well 1-1 9/27/2018 Deep ug/L |
|--|----------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|--|--|---------------------------------------|--|--|---------------------------------------|---------------------------------------|---------------------------------------|
| 1,1,1-Trichloroethane | 5 | 220 | 240 | 350 | 250 | 210 | 310 | 220 | NS | 360 | 210 | 170 | 230 | 170 | 220 |
| 1,1,2,2-Tetrachloroethane | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 4.1 | 5.0 U | 5.0 U | 4.3 J | 4.3 J | 6.3 | 5.0 U | NS | 7.1 | 5.7 | 4.4 | 4.0 U | 4.2 | 4.0 U |
| 1,1,2-Trichloroethane | 1 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,1-Dichloroethane | 5 | 15 | 18 | 28 | 22 | 14 | 22 | 18 | NS | 32 | 17 | 18 | 21 | 17 | 20 |
| 1,1-Dichloroethene | 5 | 10 | 30 | 41 | 16 | 5.0 U | 20 | 31 | NS | 57 | 13 | 13 | 16 | 14 | 18 |
| 1,2,3-Trimethylbenzene | | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2,4-Trichlorobenzene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2,4-Trimethylbenzene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2-Dichlorobenzene | 3 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2-Dichloroethane | 0.6 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,2-Dichloropropane | 1 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,3-Dichlorobenzene | 3 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 1,4-Dichlorobenzene | 3 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| 2-BU*anone (MEK) | 50 | 40 U | 50 U | NS | 50 U | 50 U | 10 U | 40 U* | 50 U | 40 U |
| 2-Hexanone | 50* | 20 U | 25 U | NS | 25 U | 50 U | 50 U | 20 U | 50 U* | 20 U |
| 4-Methyl-2-pentanone (MIBK) | | 20 U | 25 U | NS | 25 U | 50 U | 50 U | 20 U | 50 U* | 20 U |
| Acetone | 50* | 40 U | 50 U | NS | 50 U | 50 U | 10 U | 40 U | 50 U | 40 U |
| Benzene | 1 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Bromodichloromethane | 50 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Bromoform | 50* | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Bromomethane | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Carbon disulfide | | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Carbon tetrachloride | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Chlorobenzene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Chloroethane | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Chloroform | 7 | 4.0 U | 5.0 U | NS | 5.0 U | 0.27 J | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Chloromethane | | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| cis-1,2-Dichloroethene | 5 | 39 | 66 | 82 | 68 | 52 | 77 | 62 | NS | 96 | 55 | 59 | 69 | 56 | 68 |
| cis-1,3-Dichloropropene | 0.4 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Cyclohexane | | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Dibromochloromethane | 50 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Dichlorodifluoromethane | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Ethylbenzene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Isopropylbenzene (Cumene) | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Methyl Acetate | | 10 U | 13 U | NS | 13 U | 5.0 U | 2.5 U | 10 U | 5.0 U | 10 U |
| Methyl Cyclohexane | | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Methylene Chloride | 5 | 4.0 U | 5.0 U | 5.0 U | 5.0 B | 5.0 U | 5.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Methyl Tert Butyl Ether | 10 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Styrene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Tetrachloroethene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 0.21 J | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Toluene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| trans-1,2-Dichloroethene | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 0.28 J | 1.0 U | 4.0 U | 0.35 J | 4.0 U |
| trans-1,3-Dichloropropene | 0.4 | 4.0 U | 5.0 U | NS | 5.0 U | 1.0 U | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Trichloroethene | 5 | 41 | 64 | 81 | 59 | 56 | 69 | 66 | NS | 89 | 59 | 61 | 73 | 53 | 67 |
| Trichlorofluoromethane | 5 | 4.0 U | 5.0 U | NS | 5.0 U | 0.19 J | 1.0 U | 4.0 U | 1.0 U | 4.0 U |
| Vinyl chloride | 2 | 4.0 U | 5.0 U | NS | 5.0 U | 0.17 J | 1.0 U | 4.0 U | 0.29 J | 4.0 U |
| Xylenes, Total | | 8.0 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | NS | 10 U | 2.0 U | 2.0 U | 8.0 U | 2.0 U | 8.0 U |
| Total VOCs | | 329 | 418 | 582 | 425 | 336 | 504 | 397 | - | 641 | 361 | 325 | 409 | 315 | 395 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 329 | 418 | 582 | 419 | 336 | 504 | 397 | - | 641 | 361 | 325 | 409 | 315 | 393 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

— Concentration exceeds NYSDEC Class GA Standard

U*

J - Compound detected below the reporting limit or reported concentration is estimated

ug/L - Micrograms per Liter

B - Analyte detected in the method blank and sample

E - Estimated value

D- Result of dU/U*ed sample shown

M - Manual integrated compound

* - Laboratory control sample (LCS) or LCS Duplicate is outside acceptable limits

Matrix Spike (MS) or MS Duplicate is outside acceptable limits

¹This is a duplicate sample from 4009-12

²This is a duplicate sample from 4009-271

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

^ PDB was compromised when sample was collected

NS - Not Sampled

NA - Not Analyzed

*** - 4009-16 was sampled via low flow on this date

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



| Sample ID | NYSDEC GA Standard ug/L | Well 1-2A Influent 7/22/2014 ug/L | Well 1-2A Influent 7/30/2014 ug/L | Well 1-2A Influent 8/18/2014 ug/L | Well 1-2A Influent 8/28/2014 ug/L | Well 1-2A Influent 9/29/2014 ug/L | Well 1-2A Influent 9/30/2014 ug/L | Well 1-2A Influent 10/21/2014 ug/L | Well 1-2A Influent 10/28/2014 ug/L | Well 1-2A Influent 11/11/2014 ug/L | Well 1-2A Influent 11/24/2014 ug/L | Well 1-2A Influent 12/9/2014 ug/L | Well 1-2A Influent 12/18/2014 ug/L | Well 1-2A Influent 1/20/2015 ug/L | Well 1-2A Influent 1/29/2015 ug/L |
|--|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|-----------------------------------|-----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 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 |
| 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 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 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 |
| 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 |
| 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 |
| 1,2,3-Trimethylbenzene | | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | 5.0 U | NA | NA | 1.0 U | 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 | 1.0 U |
| 1,2,4-Trimethylbenzene | 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 |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | 2.0 U | NA | NA | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Acetone | 50* | NA | 10 U | NA | 10 U | 10 U | NA | 10 U | NA | NA | 10 U | 10 U | NA | NA | 10 U |
| Benzene | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U |
| 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 | 0.5 U | 1.0 U | 1.0 U | NA | NA | 1.0 U |
| Bromoform | 50* | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | NA | NA | 1.0 U |
| Bromomethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U |
| 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 | 0.5 U | 1.0 U | 1.0 U | NA | NA | 1.0 U |
| Carbon tetrachloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 | 0.5 U | 0.5 U | 1.0 U |
| Cyclohexane | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U |
| Dibromochloromethane | 50 | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U* | NA | NA | 1.0 U* | 1.0 U | 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 |
| 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 |
| Isopropylbenzene (Cumene) | 5 | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U |
| Methyl Acetate | | NA | NA | NA | NA | 2.5 U | NA | NA | 2.5 U | NA | NA | 2.5 U | 10 U | NA | 2.5 U |
| Methyl Cyclohexane | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U |
| Methylene Chloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| Xylenes, Total | | | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 1.5 U | 0.5 U | 2.0 U | 2.0 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

ug/L - Micrograms per Liter

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 2/25/2015** ug/L | Well 1-2A Influent 2/25/2015** ug/L | Well 1-2A Influent 3/12/2015** ug/L | Well 1-2A Influent 3/19/2015** ug/L | Well 1-2A Influent 4/9/2015 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 |
|--|-------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA |
| 1,1,2-Trichloroethane | 1 | NS | NS | NS | NS | 0.5 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 | 0.5 U |
| 1,1-Dichloroethane | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethene | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | NS | NS | NS | NS | 0.5 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | NS | NS | NS | NS | NA | 10 U | 10 U | NA | NA | 10 U | 10 U | NA | 10 U | NA |
| 2-Hexanone | 50* | NS | NS | NS | NS | NA | 5.0 U | 5.0 U | NA | NA | 5.0 U | 5.0 U | NA | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | NS | NS | NS | NS | NA | 5.0 U | 5.0 U | NA | NA | 5.0 U | 5.0 U | NA | 5.0 U | NA |
| Acetone | 50* | NS | NS | NS | NS | NA | 10 U | 10 U | NA | NA | 10 U | 10 U | NA | 10 U | NA |
| Benzene | 1 | NS | NS | NS | NS | 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 |
| Bromodichloromethane | 50 | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| Bromoform | 50* | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| Bromomethane | 5 | NS | NS | NS | NS | 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 |
| Carbon disulfide | | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA |
| Carbon tetrachloride | 5 | NS | NS | NS | NS | 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 |
| Chlorobenzene | 5 | NS | NS | NS | NS | 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 |
| Chloroethane | 5 | NS | NS | NS | NS | 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 |
| Chloroform | 7 | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA |
| Chloromethane | | NS | NS | NS | NS | 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 |
| cis-1,2-Dichloroethene | 5 | NS | NS | NS | NS | 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 |
| cis-1,3-Dichloropropene | 0.4 | NS | NS | NS | NS | 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 |
| Cyclohexane | | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA |
| Dibromochloromethane | 50 | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Dichlorodifluoromethane | 5 | NS | NS | NS | NS | 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 |
| Ethylbenzene | 5 | NS | NS | NS | NS | 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 |
| Isopropylbenzene (Cumene) | 5 | NS | NS | NS | NS | 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 |
| Methyl Acetate | | NS | NS | NS | NS | NA | 2.5 U | 2.5 U | NA | NA | 2.5 U | 2.5 U | NA | 2.5 U | NA |
| Methyl Cyclohexane | | NS | NS | NS | NS | NA | 1.0 U | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA |
| Methylene Chloride | 5 | NS | NS | NS | NS | 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 |
| Methyl Tert Butyl Ether | 10 | NS | NS | NS | NS | 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 |
| Styrene | 5 | NS | NS | NS | NS | 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 |
| Tetrachloroethene | 5 | NS | NS | NS | NS | 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 |
| Toluene | 5 | NS | NS | NS | NS | 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 |
| trans-1,2-Dichloroethene | 5 | NS | NS | NS | NS | 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 |
| trans-1,3-Dichloropropene | 0.4 | NS | NS | NS | NS | 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 |
| Trichloroethene | 5 | NS | NS | NS | NS | 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 |
| Trichlorofluoromethane | 5 | NS | NS | NS | NS | 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 |
| Vinyl chloride | 2 | NS | NS | NS | NS | 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 |
| Xylenes, Total | | NS | NS | NS | NS | 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 |
| Total VOCs | | | | | | 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

ug/L - Micrograms per Liter

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 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 | Well 1-2A Influent 3/28/2016 ug/L | Well 1-2A Influent 4/20/2016 ug/L | Well 1-2A Influent 4/22/2016 ug/L | Well 1-2A Influent 5/20/2016 ug/L |
|--|-------------------------|-----------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| 1,1,1-Trichloroethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.0 U | 1.0 U | NA | 5.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 1.0 U | 1.0 U | NA | 2.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | 10 U | 10 U | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | NA | 10.0 U | NA | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 5.0 U | 5.0 U | NA | 10.0 U | NA | 5.0 U | NA |
| Acetone | 50* | 10 U | 10 U | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA |
| Benzene | 1 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Bromodichloromethane | 50 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Bromoform | 50* | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Bromomethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Carbon disulfide | | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Carbon tetrachloride | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chloroethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chloroform | 7 | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Chloromethane | | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Dichlorodifluoromethane | 5 | 1.0 U | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Methyl Acetate | | 2.5 U | 2.5 U | 2.5 U | NA | 10 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Methylene Chloride | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Styrene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Toluene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Trichloroethene | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Trichlorofluoromethane | 5 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Vinyl chloride | 2 | 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 | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Xylenes, Total | | 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 | 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 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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 5/23/2016 ug/L | Well 1-2A Influent 6/21/2016 ug/L | Well 1-2A Influent 6/22/2016 ug/L | Well 1-2A Influent 7/20/2016 ug/L | Well 1-2A Influent 7/28/2016 ug/L | Well 1-2A Influent 8/16/2016 ug/L | Well 1-2A Influent 8/18/2016 ug/L | Well 1-2A Influent 9/6/2016 ug/L | Well 1-2A Influent 9/15/2016 ug/L | Well 1-2A Influent 10/18/2016 ug/L | Well 1-2A Influent 10/31/2016 ug/L | Well 1-2A Influent 11/8/2016 ug/L | Well 1-2A Influent 11/28/2016 ug/L | Well 1-2A Influent 12/16/2016 ug/L |
|--|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|------------------------------------|------------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 1.0 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 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 1.0 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 | 0.5 U | 1.0 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 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 1.0 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 | 0.5 U | 1.0 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 | 0.5 U | 1.0 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 | 0.5 U | 1.0 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 | 0.5 U | 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 | NA | 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 | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 5.0 U | NA | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA |
| Acetone | 50* | 10 U | 10 U | NA | NA | 10 U | NA | 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 | 0.5 U | 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 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Bromoform | 50* | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Bromomethane | 5 | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Carbon disulfide | | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Carbon tetrachloride | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chloroethane | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Chloroform | 7 | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Chloromethane | | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 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 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Dichlorodifluoromethane | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Methyl Acetate | | 2.5 U | 2.5 U | NA | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | NA | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Styrene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U |
| Toluene | 5 | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 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 | 0.5 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U |
| Total VOCs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

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

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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 7/31/2017 ug/L | Well 1-2A Influent 8/18/2017 ug/L | Well 1-2A Influent 8/28/2017 ug/L | Well 1-2A Influent 9/15/2017 ug/L | Well 1-2A Influent 9/20/2017 ug/L | Well 1-2A Influent 10/3/2017 ug/L | Well 1-2A Influent 10/23/2017 ug/L | Well 1-2A Influent 11/10/2017 ug/L | Well 1-2A Influent 11/28/2017 ug/L | Well 1-2A Influent 12/27/2017 ug/L | Well 1-2A Influent 12/28/2017 ug/L | Well 1-2A ** Influent 1/15/2018 ug/L | Well 1-2A Influent 1/29/2018 ug/L | Well 1-2A Influent 2/20/2018 ug/L |
|--|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|-----------------------------------|-----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,1-Dichloroethene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| 1,2-Dibromoethene | 3 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | 10 U* | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NS | 10 U | NA |
| 2-Hexanone | 50* | 5.0 U* | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NS | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NS | 5.0 U | NA |
| Acetone | 50* | 10 U | NA | 10 U | NA | 10 U | NA | 4.2 J | NA | 10 U | NA | 10 U | NS | 10 U | NA |
| Benzene | 1 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Bromodichloromethane | 50 | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Bromoform | 50* | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Bromomethane | 5 | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Carbon disulfide | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Carbon tetrachloride | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Chloroethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Chloroform | 7 | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Chloromethane | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Cyclohexane | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Dibromochloromethane | 50 | 1.0 U | NA | 1.0 U* | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Dichlorodifluoromethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Methyl Acetate | | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NS | 2.5 U | NA |
| Methyl Cyclohexane | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NS | 1.0 U | NA |
| Methylene Chloride | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Styrene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Toluene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Trichloroethene | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Trichlorofluoromethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Vinyl chloride | 2 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U |
| Xylenes, Total | | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | NS | 2.0 U | 0.5 U |
| Total VOCs | | 0 | 0 | 0 | 0 | 0 | 0 | 4.2 | 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

ug/L - Micrograms per Liter

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 2/26/2018 ug/L | Well 1-2A Influent 3/12/2018 ug/L | Well 1-2A Influent 3/30/2018 ug/L | Well 1-2A Influent 4/6/2018 ug/L | Well 1-2A Influent 4/24/2018 ug/L | Well 1-2A Influent 5/7/2018 ug/L | Well 1-2A Influent 5/21/2018 ug/L | Well 1-2A Influent 6/14/2018 ug/L | Well 1-2A Influent 6/19/2018 ug/L | Well 1-2A Influent 7/6/2018 ug/L | Well 1-2A Influent 7/17/2018 ug/L | Well 1-2A Influent 8/8/2018 ug/L | Well 1-2A Influent 8/27/2018 ug/L | Well 1-2A Influent 9/13/2018 ug/L |
|--|-------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 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 | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 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 | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | 1 | 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 | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 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 | 1.0 U |
| 1,1-Dichloroethane | 5 | 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 | 1.0 U |
| 1,1-Dichloroethene | 5 | 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 | 1.0 U |
| 1,2,2,3-Trimethylbenzene | | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2,2,4-Trichlorobenzene | 5 | 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 | 1.0 U |
| 1,2,2,4-Trimethylbenzene | 5 | 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 | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | NA | 1.0 U | NA | 10 U | 10 U | 10 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dibromothane | 3 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 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 | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 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 | 1.0 U |
| 1,2-Dichloropropane | 1 | 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 | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 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 | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 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 | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 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 | 1.0 U |
| 2-Butanone (MEK) | 50 | 10 U | NA | 10 U | NA | 50 U | 50 U | 50 U | NA | 10 U | NA | 10 U | NA | 10 U* | NA |
| 2-Hexanone | 50* | 5.0 U | NA | 5.0 U | NA | 10 U | 10 U | 10 U | NA | 5.0 U* | NA | 5.0 U | NA | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | NA | 5.0 U | NA | 10 U | 10 U | 10 U | NA | 5.0 U* | NA | 5.0 U | NA | 5.0 U | NA |
| Acetone | 50* | 10 U | NA | 10 U | NA | 25 U | 25 U | 25 U | NA | 10 U | NA | 10 U | NA | 3.1 J | NA |
| Benzene | 1 | 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 | 1.0 U |
| Bromodichloromethane | 50 | 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 |
| Bromoform | 50* | 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 |
| Bromomethane | 5 | 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 |
| Carbon disulfide | | 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 |
| Carbon tetrachloride | 5 | 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 | 1.0 U |
| Chlorobenzene | 5 | 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 | 1.0 U |
| Chloroethane | 5 | 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 | 1.0 U |
| Chloroform | 7 | 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 |
| Chloromethane | | 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 |
| cis-1,2-Dichloroethene | 5 | 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 | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 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 | 1.0 U |
| Cyclohexane | | 1.0 U | NA | 1.0 U | NA | 50 U | 5 U* | NA | 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 | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Dichlorodifluoromethane | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U |
| Ethylbenzene | 5 | 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 | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 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 | 1.0 U |
| Methyl Acetate | | 2.5 U | NA | 2.5 U | NA | 10 U | 10 U | 10 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA |
| Methyl Cyclohexane | | 1.0 U | NA | 1.0 U | NA | 50 U | 5.0 U* | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Methylene Chloride | 5 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 5.0 U | 5.0 U* | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U |
| Styrene | 5 | 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 | 1.0 U |
| Tetrachloroethene | 5 | 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 | 1.0 U |
| Toluene | 5 | 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 | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 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 | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 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 | 1.0 U |
| Trichloroethene | 5 | 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 | 1.0 U |
| Trichlorofluoromethane | 5 | 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 | 1.0 U |
| Vinyl chloride | 2 | 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 | 1.0 U |
| Xylenes, Total | | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 3.0 U | 3.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U |
| Total VOCs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3.1 | 0 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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 9/24/2018 ug/L | Well 1-3 Influent 7/22/2014 ug/L | Well 1-3 Influent 7/30/2014 ug/L | Well 1-3 Influent 8/18/2014 ug/L | Well 1-3 Influent 8/28/2014 ug/L | Well 1-3 Influent 9/29/2014 ug/L | Well 1-3 Influent 9/30/2014 ug/L | Well 1-3 Influent 10/21/2014 ug/L | Well 1-3 Influent 10/28/2014 ug/L | Well 1-3 Influent 11/11/2014 ug/L | Well 1-3 Influent 11/24/2014 ug/L | Well 1-3 Influent 12/9/2014 ug/L | Well 1-3 Influent 12/18/2014 ug/L |
|--|-------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| 1,1,1-Trichloroethane | 5 | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 0.5 U | NA | 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 | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 0.5 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 | 1.0 U | 0.5 U |
| 1,1-Dichloroethene | 5 | 0.5 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 | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 5.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 0.5 U | 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 |
| 1,2,4-Trimethylbenzene | 5 | 0.5 U | 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 |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 2.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 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 |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 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 |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 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 |
| 1,2-Dichloropropane | 1 | 0.5 U | 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 |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 0.5 U | 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 |
| 1,3-Dichlorobenzene | 3 | 0.5 U | 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 |
| 1,4-Dichlorobenzene | 3 | 0.5 U | 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 |
| 2-Butanone (MEK) | 50 | NA | NA | 10 U | NA | 10 U | 10.0 U | NA | 10 U | NA | NA | 10 U | 10 U | NA |
| 2-Hexanone | 50* | NA | NA | 5.0 U | NA | 5.0 U | 10.0 U | NA | 5.0 U | NA | NA | 5.0 U | 10 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | NA | NA | 5.0 U | NA | 5.0 U | 10.0 U | NA | 5.0 U | NA | NA | 5.0 U | 10 U | NA |
| Acetone | 50* | NA | NA | 10 U | NA | 10 U | 10.0 U | NA | 10 U | NA | NA | 10 U | 10 U | NA |
| Benzene | 1 | 0.5 U | 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 |
| Bromodichloromethane | 50 | NA | 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 | NA | 1.0 U | 1.0 U |
| Bromoform | 50* | NA | 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 | NA | 1.0 U | 1.0 U |
| Bromomethane | 5 | NA | 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 |
| Carbon disulfide | | NA | 0.5 U | 1.0 U | 0.5 U | 1 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | NA | 1.0 U | 1.0 U |
| Carbon tetrachloride | 5 | 0.5 U | 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 |
| Chlorobenzene | 5 | 0.5 U | 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 |
| Chloroethane | 5 | 0.5 U | 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 |
| Chloroform | 7 | NA | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| Chloromethane | | NA | 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 |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 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 |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 1.0 U | 5 U |
| Cyclohexane | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| Dibromochloromethane | 50 | NA | NA | 1.0 U | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| Dichlorodifluoromethane | 5 | 0.5 U | 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 |
| Ethylbenzene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 0.5 U | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| Methyl Acetate | | NA | NA | NA | NA | 2.5 U | NA | NA | 2.5 U | NA | NA | 2.5 U | 10 U | NA |
| Methyl Cyclohexane | | NA | NA | NA | NA | 1.0 U | 1.0 U | NA | 1.0 U | NA | NA | 1.0 U | 1.0 U | NA |
| Methylene Chloride | 5 | 0.5 U | 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 |
| Methyl Tert Butyl Ether | 10 | 0.5 U | 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 |
| Styrene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Tetrachloroethene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Toluene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Trichlorofluoromethane | 5 | 0.5 U | 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 |
| Vinyl chloride | 2 | 0.5 U | 0.5 U | 0.5 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 | 0.5 U |
| Xylenes, Total | | 0.5 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 1.5 U | 0.5 U | 2.0 U | 2.0 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

ug/L - Micrograms per Liter

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 1/20/2015 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 |
|--|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 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 |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | 1.0 U | NS | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethylene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| 1,2,4-Trichlorobenzene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | NA | 10 U | NS | 10 U | NA | 10 U | NA | 10 U | 10 U | 10 U | NA | 10 U | 10 U | NA |
| 2-Hexanone | 50* | NA | 5.0 U | NS | 5.0 U | NA | 5.0 U | NA | 5.0 U | 5.0 U | 5.0 U | NA | 5.0 U | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | NA | 5.0 U | NS | 5.0 U | NA | 5.0 U | NA | 5.0 U | 5.0 U | 5.0 U | NA | 5.0 U | 5.0 U | NA |
| Acetone | 50* | NA | 10 U | NS | 10 U | NA | 10 U | NA | 10 U | 10 U | 10 U | NA | 10 U | 10 U | NA |
| Benzene | 1 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Bromodichloromethane | 50 | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| Bromoform | 50* | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| Bromomethane | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Carbon disulfide | | NA | 1.0 U | NS | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | NA |
| Carbon tetrachloride | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 1.0 U | NS | 1.0 U | NA | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U |
| Chloroethane | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Chloroform | 7 | NA | 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 | NA | 1.0 U | 1.0 U | 0.5 U |
| Chloromethane | 0.5 U | 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 | 0.5 U | 1.0 U | 1.0 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Cyclohexane | | NA | 1.0 U | NS | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | NA |
| Dibromochloromethane | 50 | NA | 1.0 U | NS | 1.0 U | 0.5 U | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | 0.5 U |
| Dichlorodifluoromethane | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Methyl Acetate | | NA | 2.5 U | NS | 2.5 U | NA | 2.5 U | NA | 2.5 U | 2.5 U | 2.5 U | NA | 2.5 U | 2.5 U | NA |
| Methyl Cyclohexane | | NA | 1.0 U | NS | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | 1.0 U | NA |
| Methylene Chloride | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Methyl Tert Butyl Ether | 10 | 0.5 U | 1.0 U | NS | 1.0 U | 1 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U | 0.5 U | 1.0 U | 0.5 U |
| Styrene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Toluene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Trichlorofluoromethane | 5 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Vinyl chloride | 2 | 0.5 U | 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 | 0.5 U | 1.0 U | 0.5 U |
| Xylenes, Total | | 0.5 U | 2.0 U | NS | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 2.0 U | 2.0 U | 1.5 U | 0.5 U | 2.0 U | 2.0 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

ug/L - Micrograms per Liter

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LSC 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 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 | Well 1-3 Influent 11/10/2015 ug/L | Well 1-3 Influent 12/21/2015 ug/L | Well 1-3 Influent 1/19/2016 ug/L | Well 1-3 Influent 1/27/2016 ug/L | Well 1-3 Influent 2/16/2016 ug/L | Well 1-3 Influent 2/26/2016 ug/L | Well 1-3 Influent 3/22/2016 ug/L | Well 1-3 Influent 3/28/2016 ug/L | Well 1-3 Influent 4/20/2016 ug/L |
|--|-------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|
| 1,1,1-Trichloroethane | 5 | 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 | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 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 | 1.0 U | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 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 | 1.0 U | NA |
| 1,1,2-Trichloroethane | 1 | 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 | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 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 | 1.0 U | 0.5 U |
| 1,1-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | 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 | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 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 | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 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 | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 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 | 1.0 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 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 | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | 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 | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 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 | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 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 | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | 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 | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | 10 U | NA | 10 U | 10 U | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA |
| 2-Hexanone | 50* | 5.0 U | NA | 5.0 U | 5.0 U | 5.0 U | NA | 10.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | NA | 5.0 U | 5.0 U | 5.0 U | NA | 10.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA |
| Acetone | 50* | 10 U | NA | 10 U | 10 U | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA |
| Benzene | 1 | 1.0 U | 0.5 U | 1.0 U | 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 | 1.0 U | 0.5 U |
| Bromodichloromethane | 50 | 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 | 1.0 U | NA |
| Bromoform | 50* | 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 | 1.0 U | NA |
| Bromomethane | 5 | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Carbon disulfide | | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA |
| Carbon tetrachloride | 5 | 1.0 U | 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 | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 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 | 1.0 U | 0.5 U |
| Chloroethane | 5 | 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 | 1.0 U | 0.5 U |
| Chloroform | 7 | 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 | 1.0 U | NA |
| Chloromethane | | 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 | 1.0 U | 0.5 U |
| cis-1,2-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 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 | 1.0 U | 0.5 U |
| Cyclohexane | | 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 | 1.0 U | NA |
| Dibromochloromethane | 50 | 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 | 1.0 U | 0.5 U |
| Dichlorodifluoromethane | 5 | 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 | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 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 | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 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 | 1.0 U | 0.5 U |
| Methyl Acetate | | 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 | 2.5 U | NA |
| Methyl Cyclohexane | | 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 | 1.0 U | NA |
| Methylene Chloride | 5 | 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 | 1.0 U | 0.5 U |
| Methyl Tert Butyl Ether | 10 | 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 | 1.0 U | 0.5 U |
| Styrene | 5 | 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 | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 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 | 1.0 U | 0.5 U |
| Toluene | 5 | 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 | 1.0 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 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 | 1.0 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 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 | 1.0 U | 0.5 U |
| Trichloroethene | 5 | 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 | 1.0 U | 0.5 U |
| Trichlorofluoromethane | 5 | 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 | 1.0 U | 0.5 U |
| Vinyl chloride | 2 | 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 | 1.0 U | 0.5 U |
| Xylenes, Total | | 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 | 2.0 U | 0.5 U |
| Total VOCs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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

Notes:
 NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard
 - Concentration exceeds NYSDEC Class GA Standard
 µg/L - Micrograms per Liter
 NA - Not Analyzed
 NS - Not Sampled
 U - Compound was not detected at the indicated concentration
 * 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 11/8/2016 ug/L | Well 1-3 Influent 11/28/2016 ug/L | Well 1-3 Influent 12/16/2016 ug/L | 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 | Well 1-3 Influent 4/4/2017 ug/L | Well 1-3 Influent 4/26/2017 ug/L | Well 1-3 Influent 5/19/2017 ug/L | Well 1-3 Influent 5/24/2017 ug/L |
|--|-------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|----------------------------------|----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1-Dichloroethylene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2,3-Trimethylbenzene | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| 1,2-Dibromoethene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichloropropane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 2-Butanone (MEK) | 50 | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U |
| 2-Hexanone | 50* | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U |
| Acetone | 50* | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U |
| Benzene | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Bromodichloromethane | 50 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Bromoform | 50* | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U* |
| Bromomethane | 5 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Carbon disulfide | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Carbon tetrachloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chloroform | 7 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Chloromethane | | 0.5 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Cyclohexane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Dibromochloromethane | 50 | 0.5 U | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U* |
| Dichlorodifluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Ethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Methyl Acetate | | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U |
| Methyl Cyclohexane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U |
| Methylene Chloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Styrene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Tetrachloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Toluene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Trichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Trichlorofluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Vinyl chloride | 2 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U* | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Xylenes, Total | | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U |
| Total VOCs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

- Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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 6/20/2017 ug/L | Well 1-3 Influent 6/21/2017 ug/L | Well 1-3 Influent 7/19/2017 ug/L | Well 1-3 Influent 7/31/2017 ug/L | Well 1-3 Influent 8/18/2017 ug/L | Well 1-3 Influent 8/28/2017 ug/L | Well 1-3 Influent 9/15/2017 ug/L | Well 1-3 Influent 9/20/2017 ug/L | Well 1-3 Influent 10/3/2017 ug/L | Well 1-3 Influent 10/23/2017 ug/L | Well 1-3 Influent 11/10/2017 ug/L | Well 1-3 Influent 11/28/2017 ug/L |
|--|-------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Sampling Date Units | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | 1.0 U | NA | 1.0 U |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,1-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2,3-Trimethylbenzene | | NA | 1.0 U | NA | 1.0 U |
| 1,2,4-Trichlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2,4-Trimethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | 1.0 U | NA | 1.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | 1.0 U | NA | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,2-Dichloropropane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,3-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 1,4-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| 2-Butanone (MEK) | 50 | NA | 10 U | NA | 10 U* | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U |
| 2-Hexanone | 50* | NA | 5.0 U | NA | 5.0 U* | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U |
| 4-Methyl-2-pentanone (MIBK) | | NA | 5.0 U | NA | 5.0 U |
| Acetone | 50* | NA | 10 U | NA | 3.3 J | NA | 1.9 J |
| Benzene | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Bromodichloromethane | 50 | NA | 1.0 U | NA | 1.0 U |
| Bromoform | 50* | NA | 1.0 U | NA | 1.0 U |
| Bromomethane | 5 | NA | 1.0 U | NA | 1.0 U |
| Carbon disulfide | | NA | 1.0 U | NA | 1.0 U |
| Carbon tetrachloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Chloroform | 7 | NA | 1.0 U | NA | 1.0 U |
| Chloromethane | | NA | 1.0 U | NA | 1.0 U |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Cyclohexane | | NA | 1.0 U | NA | 1.0 U |
| Dibromochloromethane | 50 | NA | 1.0 U | NA | 1.0 U |
| Dichlorodifluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Ethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Isopropylbenzene (Cumene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Methyl Acetate | | NA | 2.5 U | NA | 2.5 U |
| Methyl Cyclohexane | | NA | 1.0 U | NA | 1.0 U |
| Methylene Chloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Styrene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Tetrachloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Toluene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Trichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Trichlorofluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Vinyl chloride | 2 | 0.5 U | 1.0 U | 0.5 U | 1.0 U |
| Xylenes, Total | | | 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 | 3.3 | 0 |
| | | | | | | | | | | | | | 1.9 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

ug/L - Micrograms per Liter

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 12/27/2017 ug/L | Well 1-3 Influent 12/28/2017 ug/L | Well 1-3 Influent 1/15/2018 ug/L | Well 1-3 Influent 1/29/2018 ug/L | Well 1-3 Influent 2/20/2018 ug/L | Well 1-3 Influent 2/26/2018 ug/L | Well 1-3 Influent 3/12/2018 ug/L | Well 1-3 Influent 3/30/2018 ug/L | Well 1-3 Influent 4/6/2018 ug/L | Well 1-3 Influent 4/24/2018 ug/L | Well 1-3 (post) Influent 5/7/2018 ug/L | Well 1-3 Influent 5/21/2018 ug/L | |
|--|-------------------------|-----------------------------------|-----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|---------------------------------|----------------------------------|--|----------------------------------|-------|
| Sampling Date Units | | | | | | | | | | | | | | |
| 1,1,1-Trichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 0.29 J | 0.26 J | 1.0 U | 0.5 U |
| 1,1,2,2-Tetrachloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U* | 1.0 U* | NA |
| 1,1,2-Trichloroethane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,1-Dichloroethylene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2,3-Trimethylbenzene | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| 1,2,4-Trichlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2,4-Trimethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 10 U | 10 U | 10 U | NA |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dichloroethane | 0.6 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,2-Dichloropropane | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,3-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 1,4-Dichlorobenzene | 3 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| 2-Butanone (MEK) | 50 | NA | 10 U | NA | 10 U | NA | 10 U | NA | 10 U | NA | 50 U | 50 U | 50 U | NA |
| 2-Hexanone | 50* | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 10 U | 10 U | 10 U | NA |
| 4-Methyl-2-pentanone (MIBK) | | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 5.0 U | NA | 10 U | 10 U | 10 U | NA |
| Acetone | 50* | NA | 10 U | NA | 3.4 J | NA | 10 U | NA | 10 U | NA | 25 U | 25 U | 25 U | NA |
| Benzene | 1 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Bromodichloromethane | 50 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| Bromoform | 50* | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| Bromomethane | 5 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| Carbon disulfide | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | * NA |
| Carbon tetrachloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Chlorobenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Chloroethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Chloroform | 7 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| Chloromethane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| cis-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| cis-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Cyclohexane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 50 U | 50 U* | 50 U* | NA |
| Dibromochloromethane | 50 | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | 1.0 U | 1.0 U | NA |
| Dichlorodifluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Ethylbenzene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Isopropylbenzene (Cumene) | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Methyl Acetate | | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 2.5 U | NA | 10 U | 10 U | 10 U | NA |
| Methyl Cyclohexane | | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 1.0 U | NA | 50 U | 50 U* | 50 U* | NA |
| Methylene Chloride | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 50 U | 50 U* | 50 U* | 0.5 U |
| Methyl Tert Butyl Ether | 10 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Styrene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Tetrachloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Toluene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| trans-1,2-Dichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| trans-1,3-Dichloropropene | 0.4 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Trichloroethene | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U* | 1.0 U* | 0.5 U |
| Trichlorofluoromethane | 5 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Vinyl chloride | 2 | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 0.5 U | 1.0 U | 1.0 U | 1.0 U | 0.5 U |
| Xylenes, Total | | | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 2.0 U | 0.5 U | 3.0 U | 3.0 U | 0.5 U |
| Total VOCs | | | 0 | 0 | 0 | 3.4 | 0 | 0 | 0 | 0 | 0.29 | 0.26 | 0 | 0 |

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

Yellow - Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

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

Notes:

NYSDEC GA GW Standard - New York State Department of Environmental Conservation Groundwater Standard

* Concentration exceeds NYSDEC Class GA Standard

ug/L - Micrograms per Liter

NA - Not Analyzed

NS - Not Sampled

U - Compound was not detected at the indicated concentration

* LCS or LCSD exceeds the control limits

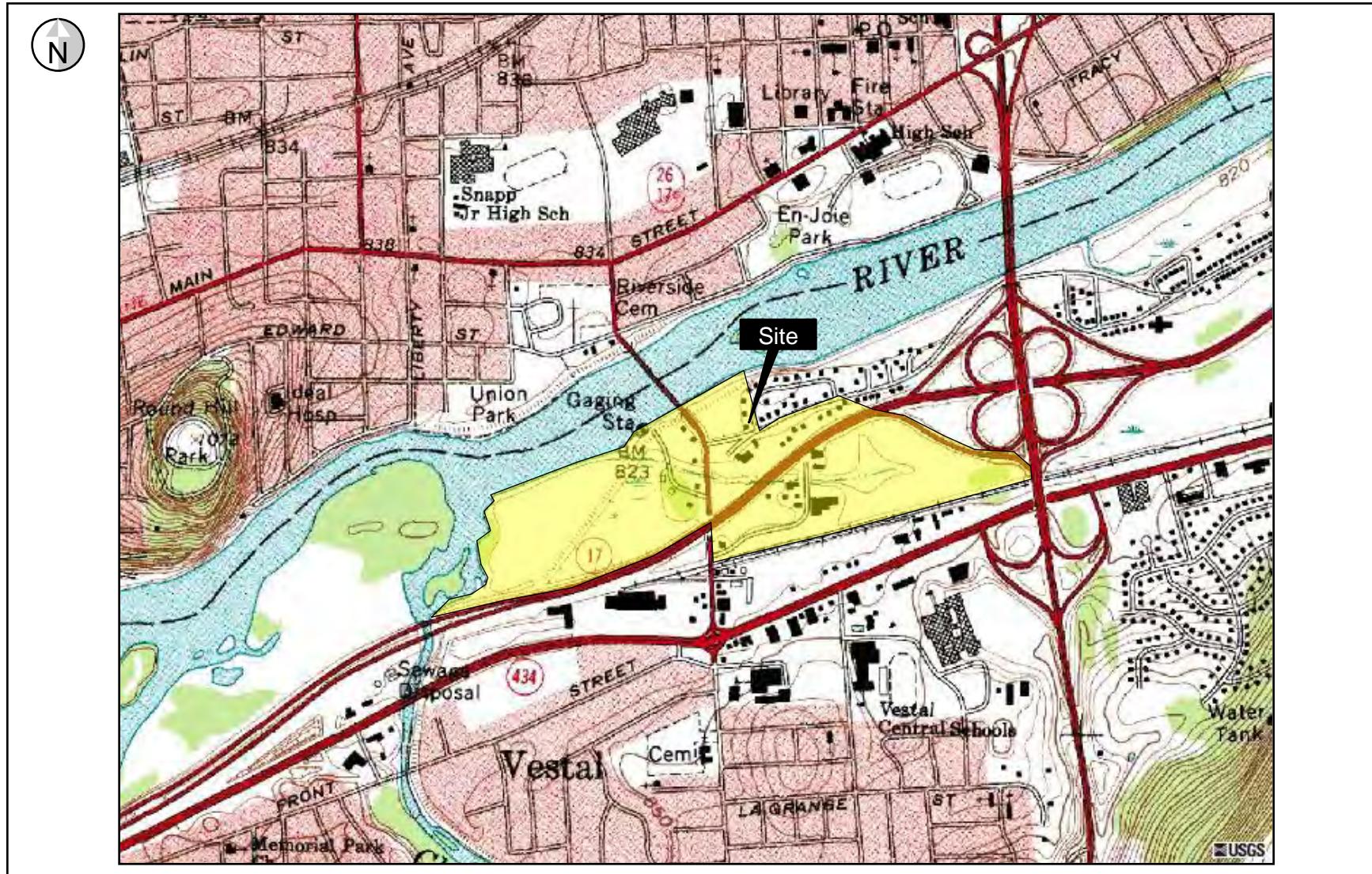
** Well 1-2A was frozen and unable to be sampled

FIGURES



0 2,000 ft

Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A

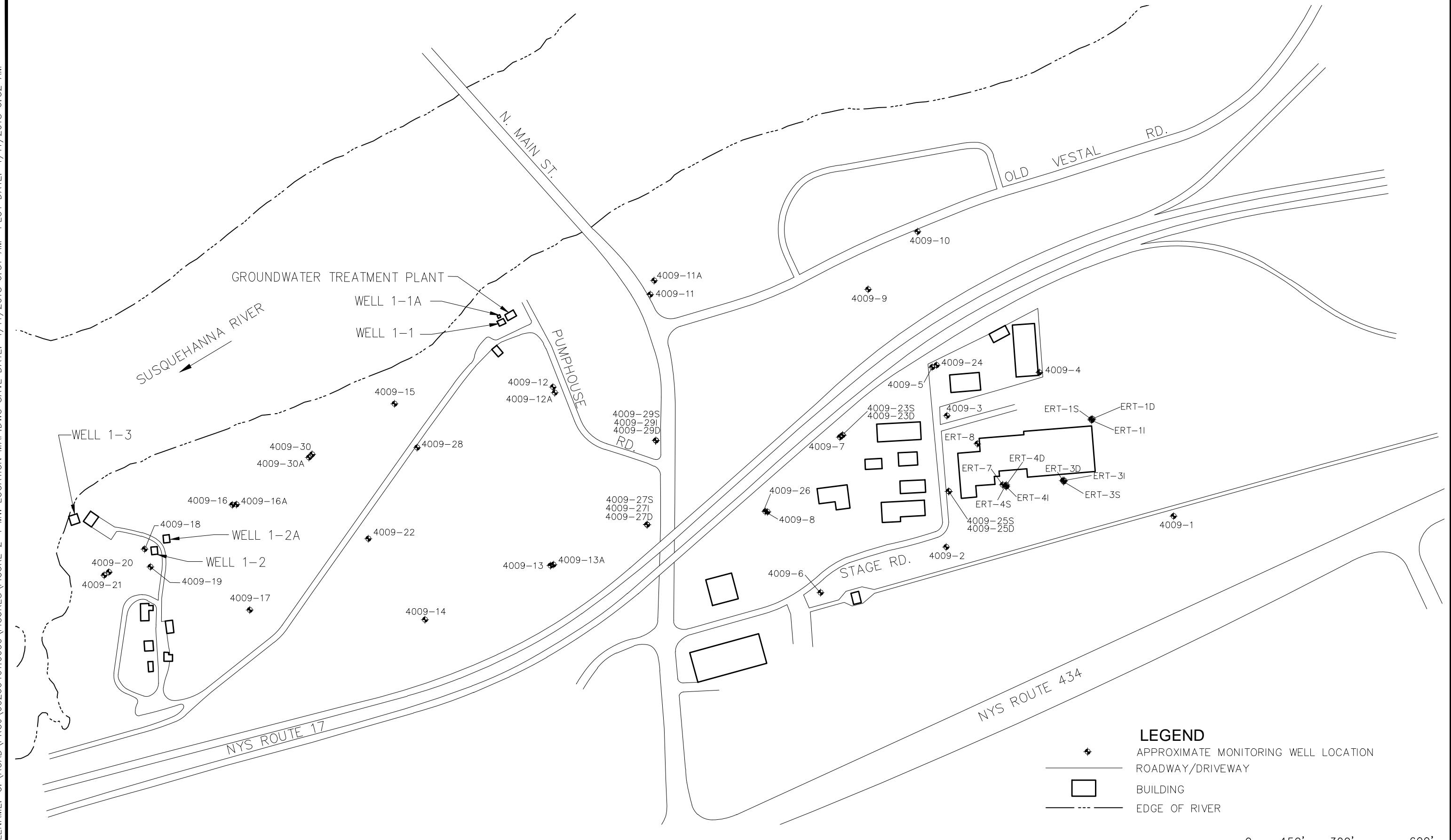


Source: USGS 7.5-minute Series Topographic Quadrangle, Endicott (1988).

G:\PROJECT\00266401.0000\Reports\RSO Quarterly Reports

FILENAME: G:\ACAD\PROJ\00266401.0000\FIGURES\FIGURE 2-1 MW LOCATION MAP.DWG SAVE DATE: 4/11/2018 6:51 AM PLOT DATE: 4/11/2018 6:52 AM

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



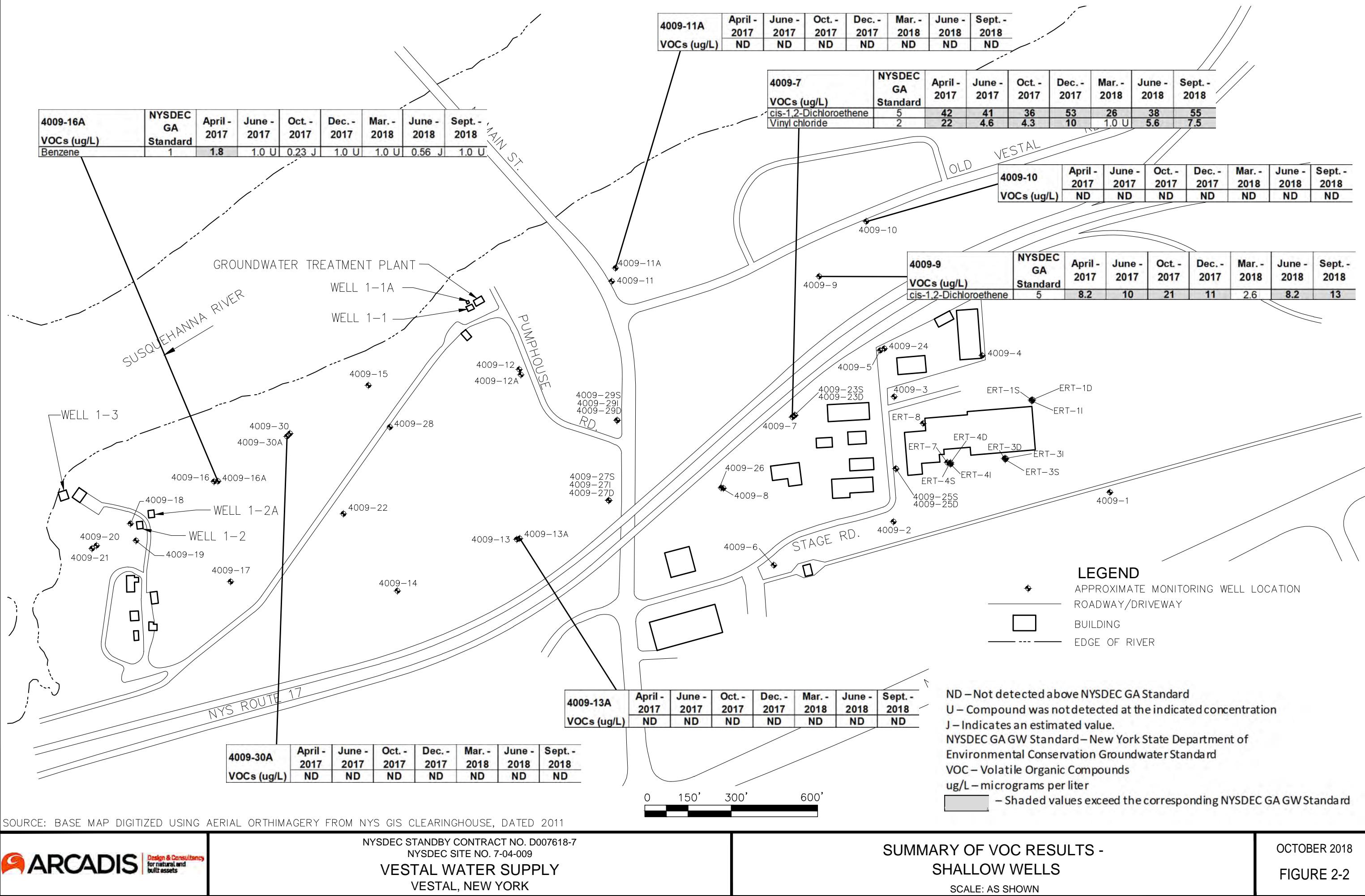
 **ARCADIS** | Design & Consultancy
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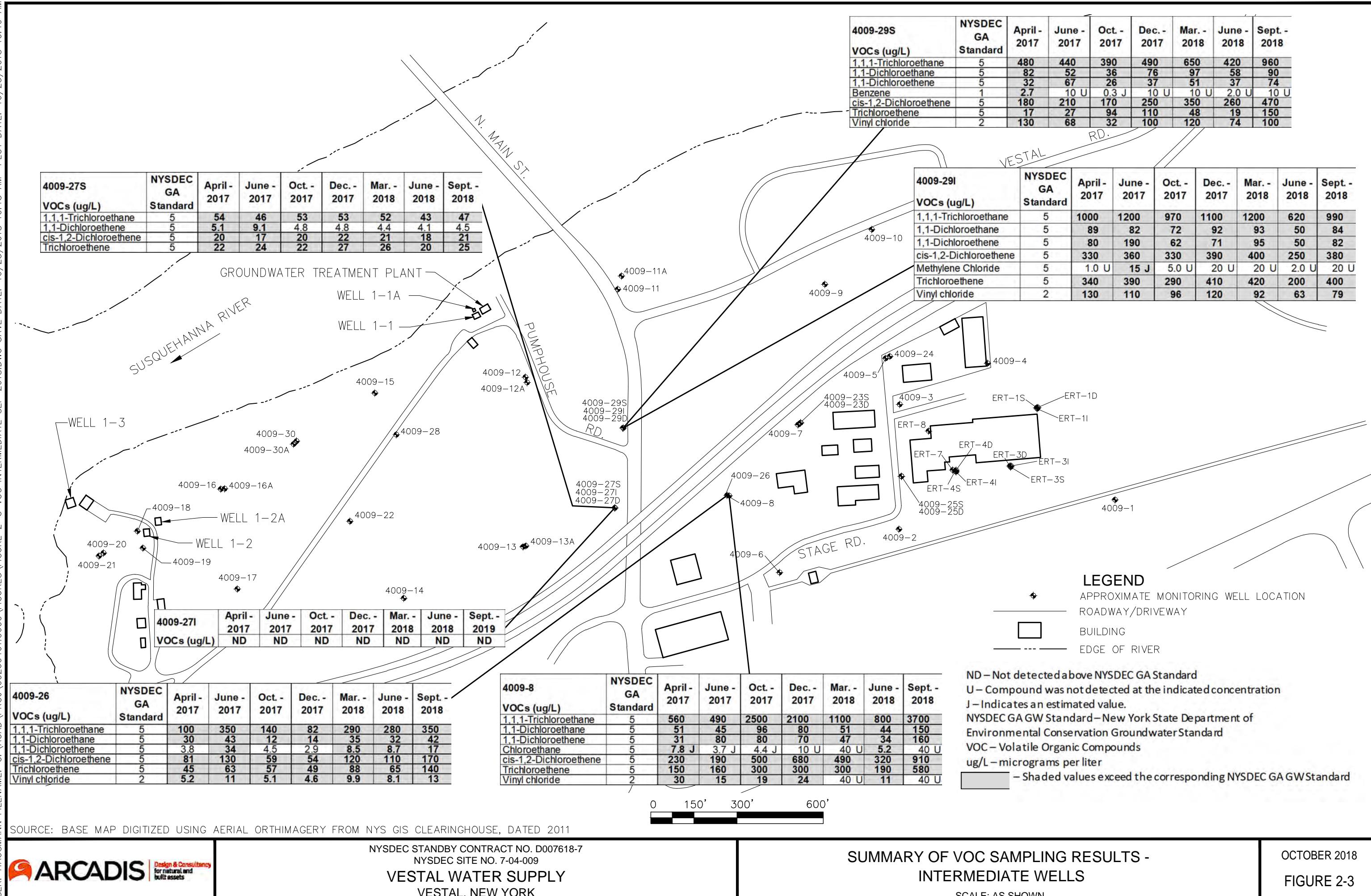
NYSDEC STANDBY CONTRACT NO. D007618-1
NYSDEC SITE NO. 7-04-009
VESTAL WATER SUPPLY
VESTAL, NEW YORK

MONITORING WELL LOCATION MAP

SCALE: AS SHOWN

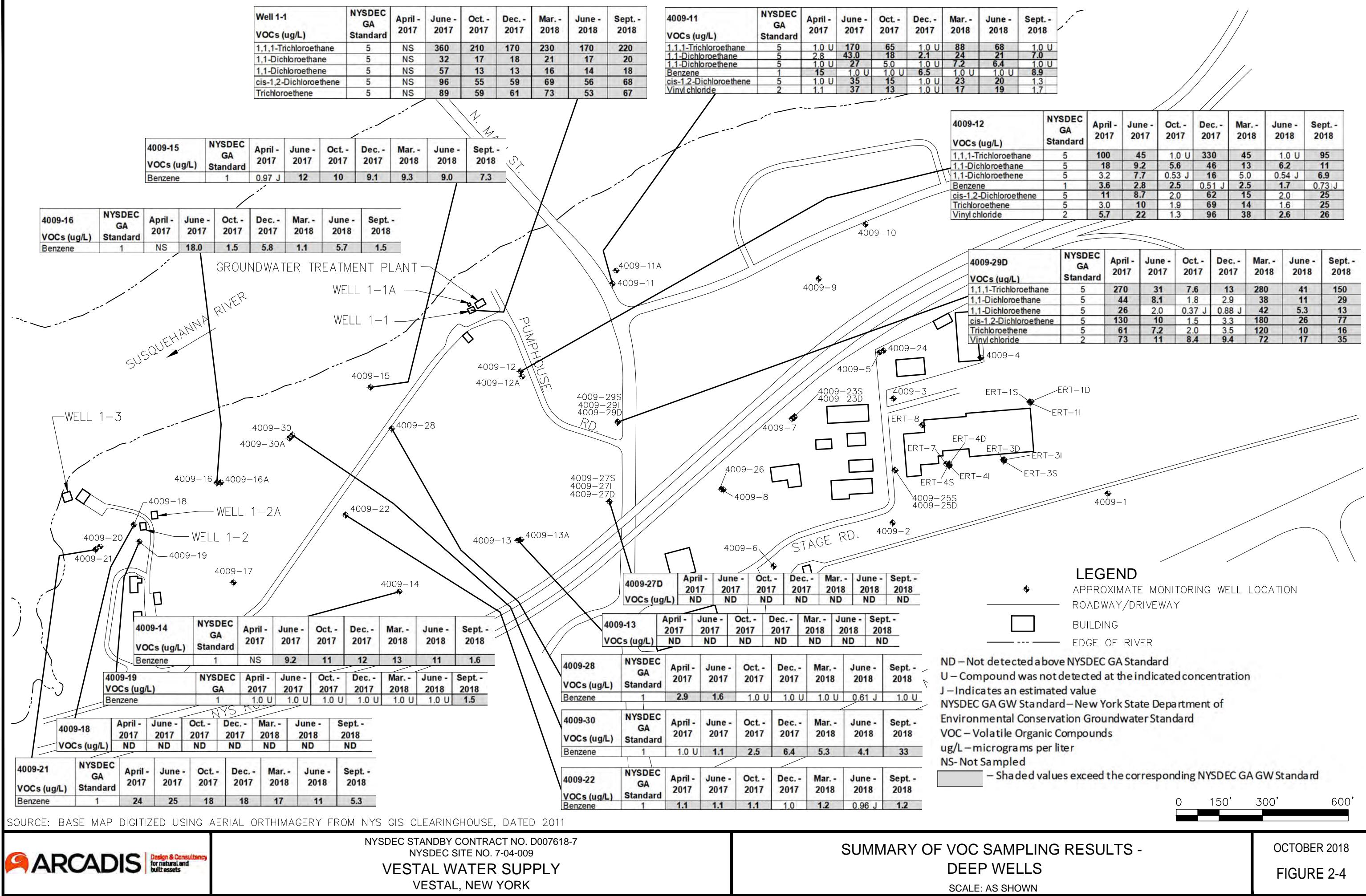
MARCH 2018
FIGURE 2-1





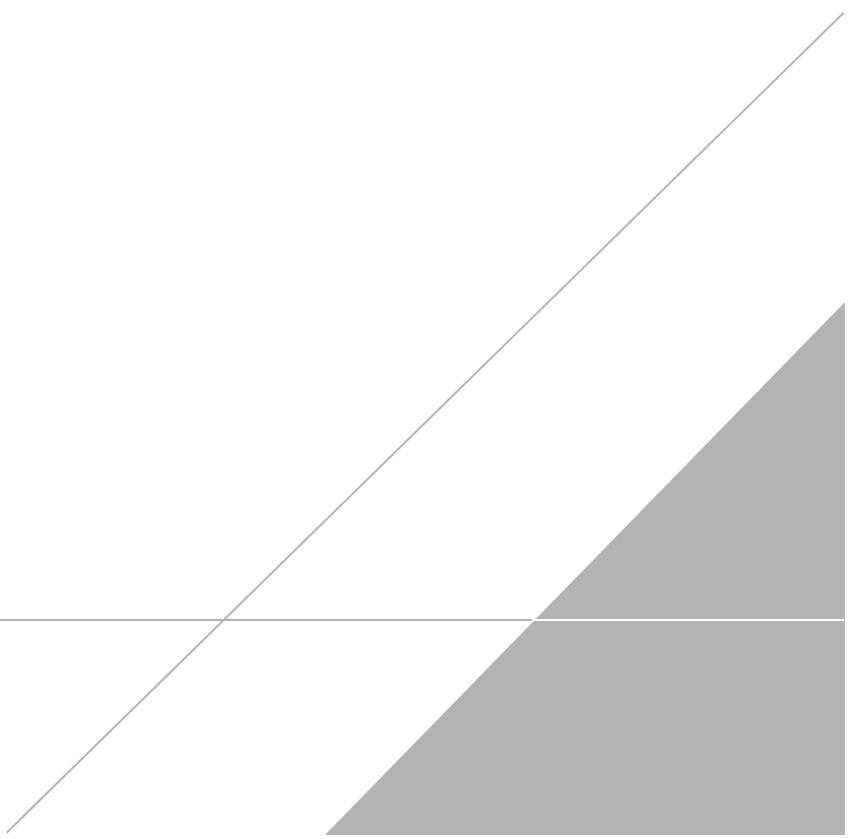
FILENAME: G:\ACAD\PROJ\00266601.0000\FIGURES\FIGURE 2-4 VOC DEEP SEP 2018.DWG SAVE DATE: 11/6/2018 10:14 AM PLOT DATE: 11/6/2018 10:15 AM

USER: HAUSMANN



APPENDIX A

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



1

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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: 480-138513-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff

Authorized for release by:

7/20/2018 5:00:01 PM

Judy Stone, Senior Project Manager

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 480-138513-1

Qualifiers

GC/MS VOA

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

Glossary

| Abbreviation | These commonly used abbreviations may or may not be present in this report. |
|----------------|---|
| □ | 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: 480-138513-1

Job ID: 480-138513-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-138513-1

Comments

No additional comments.

Receipt

The samples were received on 7/7/2018 12:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-423461 recovered above the upper control limit for Trichlorofluoromethane. The samples associated with this CCV were non-detect for the affected analyte; therefore, the data have been reported. The following samples are impacted: WELL 1-2A 070618 (480-138513-1), WELL 1-3 070618 (480-138513-2), WELL 1-3 POST 070618 (480-138513-3) and TRIP BLANKS 070618 (480-138513-4).

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: 480-138513-1

Client Sample ID: WELL 1-2A 070618

Lab Sample ID: 480-138513-1

No Detections.

Client Sample ID: WELL 1-3 070618

Lab Sample ID: 480-138513-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.3 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: WELL 1-3 POST 070618

Lab Sample ID: 480-138513-3

No Detections.

Client Sample ID: TRIP BLANKS 070618

Lab Sample ID: 480-138513-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 4.5 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

Client Sample ID: WELL 1-2A 070618

Lab Sample ID: 480-138513-1

Matrix: Water

Date Collected: 07/06/18 10:40

Date Received: 07/07/18 00:30

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 | | | 07/09/18 16:32 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 07/09/18 16:32 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 07/09/18 16:32 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 07/09/18 16:32 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 07/09/18 16:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 07/09/18 16:32 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 07/09/18 16:32 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 16:32 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 16:32 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 16:32 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 07/09/18 16:32 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 07/09/18 16:32 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 07/09/18 16:32 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 16:32 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 16:32 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 07/09/18 16:32 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 07/09/18 16:32 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 07/09/18 16:32 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 16:32 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 07/09/18 16:32 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 16:32 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 07/09/18 16:32 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 07/09/18 16:32 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 16:32 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 07/09/18 16:32 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 16:32 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 16:32 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 07/09/18 16:32 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 16:32 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 16:32 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 07/09/18 16:32 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 16:32 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 07/09/18 16:32 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 07/09/18 16:32 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 07/09/18 16:32 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

Client Sample ID: WELL 1-2A 070618

Lab Sample ID: 480-138513-1

Matrix: Water

Date Collected: 07/06/18 10:40

Date Received: 07/07/18 00:30

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 | | | 07/09/18 16:32 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 07/09/18 16:32 | 1 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 77 - 120 | | | | Prepared | 07/09/18 16:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | | | | 07/09/18 16:32 | 1 |
| Dibromofluoromethane (Surr) | 108 | | 75 - 123 | | | | | 07/09/18 16:32 | 1 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | | | | 07/09/18 16:32 | 1 |

Client Sample ID: WELL 1-3 070618

Lab Sample ID: 480-138513-2

Matrix: Water

Date Collected: 07/06/18 10:50

Date Received: 07/07/18 00:30

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 | | | 07/09/18 16:56 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 07/09/18 16:56 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 07/09/18 16:56 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 07/09/18 16:56 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 07/09/18 16:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 07/09/18 16:56 | 1 |
| Acetone | | | | | | | | | |
| Benzene | 3.3 | J | 10 | 3.0 | ug/L | | | 07/09/18 16:56 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 16:56 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 16:56 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 16:56 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.69 | ug/L | | | 07/09/18 16:56 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.19 | ug/L | | | 07/09/18 16:56 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.27 | ug/L | | | 07/09/18 16:56 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 16:56 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 16:56 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.34 | ug/L | | | 07/09/18 16:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.35 | ug/L | | | 07/09/18 16:56 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 07/09/18 16:56 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 16:56 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 07/09/18 16:56 | 1 |
| | | | | 0.32 | ug/L | | | 07/09/18 16:56 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

Client Sample ID: WELL 1-3 070618

Lab Sample ID: 480-138513-2

Matrix: Water

Date Collected: 07/06/18 10:50

Date Received: 07/07/18 00:30

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 | | | 07/09/18 16:56 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 07/09/18 16:56 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 16:56 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 07/09/18 16:56 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 16:56 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 16:56 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 07/09/18 16:56 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 16:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 16:56 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 07/09/18 16:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 16:56 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 07/09/18 16:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 07/09/18 16:56 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 07/09/18 16:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 16:56 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 07/09/18 16:56 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | | 77 - 120 | | | | 07/09/18 16:56 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | | 73 - 120 | | | | 07/09/18 16:56 | 1 |
| Dibromofluoromethane (Surr) | 107 | | | 75 - 123 | | | | 07/09/18 16:56 | 1 |
| Toluene-d8 (Surr) | 99 | | | 80 - 120 | | | | 07/09/18 16:56 | 1 |

Client Sample ID: WELL 1-3 POST 070618

Lab Sample ID: 480-138513-3

Matrix: Water

Date Collected: 07/06/18 10:45

Date Received: 07/07/18 00:30

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 | | | 07/09/18 17:19 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 07/09/18 17:19 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 07/09/18 17:19 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 07/09/18 17:19 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 07/09/18 17:19 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 07/09/18 17:19 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 07/09/18 17:19 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

Client Sample ID: WELL 1-3 POST 070618

Lab Sample ID: 480-138513-3

Matrix: Water

Date Collected: 07/06/18 10:45

Date Received: 07/07/18 00:30

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 | | | 07/09/18 17:19 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 17:19 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 17:19 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 07/09/18 17:19 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 07/09/18 17:19 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 07/09/18 17:19 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 17:19 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 17:19 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 07/09/18 17:19 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 07/09/18 17:19 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 07/09/18 17:19 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 17:19 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 07/09/18 17:19 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 17:19 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 07/09/18 17:19 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 07/09/18 17:19 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 17:19 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 07/09/18 17:19 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 17:19 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 17:19 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 07/09/18 17:19 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 17:19 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 17:19 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 07/09/18 17:19 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 17:19 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 07/09/18 17:19 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 07/09/18 17:19 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 07/09/18 17:19 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 17:19 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 07/09/18 17:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | 07/09/18 17:19 | 1 | |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | 07/09/18 17:19 | 1 | |
| Dibromofluoromethane (Surr) | 105 | | 75 - 123 | | | | 07/09/18 17:19 | 1 | |
| Toluene-d8 (Surr) | 97 | | 80 - 120 | | | | 07/09/18 17:19 | 1 | |

Client Sample ID: TRIP BLANKS 070618

Lab Sample ID: 480-138513-4

Matrix: Water

Date Collected: 07/06/18 00:00

Date Received: 07/07/18 00:30

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 | | | 07/09/18 17:43 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 17:43 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-138513-1

Client Sample ID: TRIP BLANKS 070618

Lab Sample ID: 480-138513-4

Matrix: Water

Date Collected: 07/06/18 00:00

Date Received: 07/07/18 00:30

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 | | | 07/09/18 17:43 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 07/09/18 17:43 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 07/09/18 17:43 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 07/09/18 17:43 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 07/09/18 17:43 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 07/09/18 17:43 | 1 |
| Acetone | 4.5 | J | 10 | 3.0 | ug/L | | | 07/09/18 17:43 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 17:43 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 17:43 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 17:43 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 07/09/18 17:43 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 07/09/18 17:43 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 07/09/18 17:43 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 17:43 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 17:43 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 07/09/18 17:43 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 07/09/18 17:43 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 07/09/18 17:43 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 17:43 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 07/09/18 17:43 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 17:43 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 07/09/18 17:43 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 07/09/18 17:43 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 17:43 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 07/09/18 17:43 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 17:43 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 17:43 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 07/09/18 17:43 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 17:43 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 17:43 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 07/09/18 17:43 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 17:43 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 07/09/18 17:43 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 07/09/18 17:43 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 07/09/18 17:43 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 17:43 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 07/09/18 17:43 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 77 - 120 | | | | 07/09/18 17:43 | 1 | |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | 07/09/18 17:43 | 1 | |
| Dibromofluoromethane (Surr) | 108 | | 75 - 123 | | | | 07/09/18 17:43 | 1 | |
| Toluene-d8 (Surr) | 95 | | 80 - 120 | | | | 07/09/18 17:43 | 1 | |

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCA (77-120) | BFB (73-120) | DBFM (75-123) | TOL (80-120) | | | | |
|------------------|----------------------|-----------------|-----------------|------------------|-----------------|--|--|--|--|
| 480-138513-1 | WELL 1-2A 070618 | 113 | 102 | 108 | 97 | | | | |
| 480-138513-2 | WELL 1-3 070618 | 111 | 106 | 107 | 99 | | | | |
| 480-138513-3 | WELL 1-3 POST 070618 | 108 | 101 | 105 | 97 | | | | |
| 480-138513-4 | TRIP BLANKS 070618 | 112 | 101 | 108 | 95 | | | | |
| LCS 480-423461/6 | Lab Control Sample | 107 | 104 | 105 | 97 | | | | |
| MB 480-423461/8 | Method Blank | 108 | 100 | 102 | 94 | | | | |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

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

Lab Sample ID: MB 480-423461/8

Matrix: Water

Analysis Batch: 423461

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 07/09/18 12:26 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 07/09/18 12:26 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 07/09/18 12:26 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 07/09/18 12:26 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 07/09/18 12:26 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 07/09/18 12:26 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 07/09/18 12:26 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 07/09/18 12:26 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 07/09/18 12:26 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 07/09/18 12:26 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 07/09/18 12:26 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 07/09/18 12:26 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 07/09/18 12:26 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 12:26 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 07/09/18 12:26 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 07/09/18 12:26 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 07/09/18 12:26 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 12:26 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 07/09/18 12:26 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 07/09/18 12:26 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 07/09/18 12:26 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 07/09/18 12:26 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 07/09/18 12:26 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 07/09/18 12:26 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 12:26 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 07/09/18 12:26 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 07/09/18 12:26 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 07/09/18 12:26 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 07/09/18 12:26 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 07/09/18 12:26 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 12:26 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 07/09/18 12:26 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 07/09/18 12:26 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

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

Lab Sample ID: MB 480-423461/8

Matrix: Water

Analysis Batch: 423461

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------|---------|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 07/09/18 12:26 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 07/09/18 12:26 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 07/09/18 12:26 | 1 |
| Surrogate | MB | | Limits | Prepared | Analyzed | Dil Fac | | | |
| | %Recovery | Qualifier | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | | 07/09/18 12:26 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 07/09/18 12:26 | 1 |
| Dibromofluoromethane (Surr) | 102 | | 75 - 123 | | | | | 07/09/18 12:26 | 1 |
| Toluene-d8 (Surr) | 94 | | 80 - 120 | | | | | 07/09/18 12:26 | 1 |

Lab Sample ID: LCS 480-423461/6

Matrix: Water

Analysis Batch: 423461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits | %Rec. |
|---|----------------|--------|-----------|------|---|------|----------|-------|
| | | Result | Qualifier | | | | | |
| 1,1,1-Trichloroethane | 25.0 | 25.0 | | ug/L | | 100 | 73 - 126 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 24.0 | | ug/L | | 96 | 76 - 120 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | 25.0 | 23.2 | | ug/L | | 93 | 61 - 148 | |
| 1,1,2-Trichloroethane | 25.0 | 23.5 | | ug/L | | 94 | 76 - 122 | |
| 1,1-Dichloroethane | 25.0 | 24.0 | | ug/L | | 96 | 77 - 120 | |
| 1,1-Dichloroethene | 25.0 | 21.4 | | ug/L | | 86 | 66 - 127 | |
| 1,2,4-Trichlorobenzene | 25.0 | 23.8 | | ug/L | | 95 | 79 - 122 | |
| 1,2,4-Trimethylbenzene | 25.0 | 24.4 | | ug/L | | 98 | 76 - 121 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 28.3 | | ug/L | | 113 | 56 - 134 | |
| 1,2-Dibromoethane | 25.0 | 25.1 | | ug/L | | 100 | 77 - 120 | |
| 1,2-Dichlorobenzene | 25.0 | 24.4 | | ug/L | | 98 | 80 - 124 | |
| 1,2-Dichloroethane | 25.0 | 25.3 | | ug/L | | 101 | 75 - 120 | |
| 1,2-Dichloropropane | 25.0 | 24.8 | | ug/L | | 99 | 76 - 120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 24.8 | | ug/L | | 99 | 77 - 121 | |
| 1,3-Dichlorobenzene | 25.0 | 24.1 | | ug/L | | 96 | 77 - 120 | |
| 1,4-Dichlorobenzene | 25.0 | 23.5 | | ug/L | | 94 | 80 - 120 | |
| 2-Butanone (MEK) | 125 | 141 | | ug/L | | 113 | 57 - 140 | |
| 2-Hexanone | 125 | 142 | | ug/L | | 114 | 65 - 127 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 138 | | ug/L | | 110 | 71 - 125 | |
| Acetone | 125 | 159 | | ug/L | | 127 | 56 - 142 | |
| Benzene | 25.0 | 22.7 | | ug/L | | 91 | 71 - 124 | |
| Bromodichloromethane | 25.0 | 25.4 | | ug/L | | 102 | 80 - 122 | |
| Bromoform | 25.0 | 27.4 | | ug/L | | 110 | 61 - 132 | |
| Bromomethane | 25.0 | 23.3 | | ug/L | | 93 | 55 - 144 | |
| Carbon disulfide | 25.0 | 20.6 | | ug/L | | 82 | 59 - 134 | |
| Carbon tetrachloride | 25.0 | 26.1 | | ug/L | | 105 | 72 - 134 | |
| Chlorobenzene | 25.0 | 24.2 | | ug/L | | 97 | 80 - 120 | |
| Chloroethane | 25.0 | 24.8 | | ug/L | | 99 | 69 - 136 | |
| Chloroform | 25.0 | 23.2 | | ug/L | | 93 | 73 - 127 | |
| Chloromethane | 25.0 | 25.0 | | ug/L | | 100 | 68 - 124 | |
| cis-1,2-Dichloroethene | 25.0 | 21.5 | | ug/L | | 86 | 74 - 124 | |
| cis-1,3-Dichloropropene | 25.0 | 24.3 | | ug/L | | 97 | 74 - 124 | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

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

Lab Sample ID: LCS 480-423461/6

Matrix: Water

Analysis Batch: 423461

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits |
|---------------------------|----------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| Cyclohexane | 25.0 | 26.1 | | ug/L | | 104 | 59 - 135 |
| Dibromochloromethane | 25.0 | 28.9 | | ug/L | | 115 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 30.3 | | ug/L | | 121 | 59 - 135 |
| Ethylbenzene | 25.0 | 23.3 | | ug/L | | 93 | 77 - 123 |
| Isopropylbenzene | 25.0 | 23.4 | | ug/L | | 94 | 77 - 122 |
| Methyl acetate | 50.0 | 47.8 | | ug/L | | 96 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 24.9 | | ug/L | | 100 | 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 | 25.1 | | ug/L | | 100 | 80 - 120 |
| Tetrachloroethene | 25.0 | 23.9 | | ug/L | | 96 | 74 - 122 |
| Toluene | 25.0 | 22.8 | | ug/L | | 91 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 22.7 | | ug/L | | 91 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 25.4 | | ug/L | | 101 | 80 - 120 |
| Trichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 28.0 | | ug/L | | 112 | 62 - 150 |
| Vinyl chloride | 25.0 | 24.9 | | ug/L | | 100 | 65 - 133 |

| Surrogate | LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 105 | | 75 - 123 |
| Toluene-d8 (Surr) | 97 | | 80 - 120 |

QC Association Summary

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

TestAmerica Job ID: 480-138513-1

GC/MS VOA

Analysis Batch: 423461

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|----------------------|-----------|--------|--------|------------|
| 480-138513-1 | WELL 1-2A 070618 | Total/NA | Water | 8260C | |
| 480-138513-2 | WELL 1-3 070618 | Total/NA | Water | 8260C | |
| 480-138513-3 | WELL 1-3 POST 070618 | Total/NA | Water | 8260C | |
| 480-138513-4 | TRIP BLANKS 070618 | Total/NA | Water | 8260C | |
| MB 480-423461/8 | Method Blank | Total/NA | Water | 8260C | |
| LCS 480-423461/6 | Lab Control Sample | Total/NA | Water | 8260C | |

Lab Chronicle

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

TestAmerica Job ID: 480-138513-1

Client Sample ID: WELL 1-2A 070618

Lab Sample ID: 480-138513-1

Matrix: Water

Date Collected: 07/06/18 10:40
Date Received: 07/07/18 00:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 423461 | 07/09/18 16:32 | AEM | TAL BUF |

Client Sample ID: WELL 1-3 070618

Lab Sample ID: 480-138513-2

Matrix: Water

Date Collected: 07/06/18 10:50
Date Received: 07/07/18 00:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 423461 | 07/09/18 16:56 | AEM | TAL BUF |

Client Sample ID: WELL 1-3 POST 070618

Lab Sample ID: 480-138513-3

Matrix: Water

Date Collected: 07/06/18 10:45
Date Received: 07/07/18 00:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 423461 | 07/09/18 17:19 | AEM | TAL BUF |

Client Sample ID: TRIP BLANKS 070618

Lab Sample ID: 480-138513-4

Matrix: Water

Date Collected: 07/06/18 00:00
Date Received: 07/07/18 00:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 423461 | 07/09/18 17:43 | AEM | 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: 480-138513-1

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 |

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-138513-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|----------------------|--------|----------------|----------------|
| 480-138513-1 | WELL 1-2A 070618 | Water | 07/06/18 10:40 | 07/07/18 00:30 |
| 480-138513-2 | WELL 1-3 070618 | Water | 07/06/18 10:50 | 07/07/18 00:30 |
| 480-138513-3 | WELL 1-3 POST 070618 | Water | 07/06/18 10:45 | 07/07/18 00:30 |
| 480-138513-4 | TRIP BLANKS 070618 | Water | 07/06/18 00:00 | 07/07/18 00:30 |

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TestAmerica Buffalo

Chain of Custody Record

| | | | | | | | | | | | | | |
|---|--------------------------------|---------------------------------------|-----------------------|---|---|---|-------------------------------|--------------------|------------------------------|----------------------------|--|--|--|
| Client Information | | Sampler: <i>Ai Thomas</i> | Lab PM: Stone, Judy L | Car: |  | COC No: 480-115350-18034.1 | | | | | | | |
| Client Contact: Ms. Katie Bidwell | Phone: (518) 280-7311 | E-Mail: judy.stone@testamericainc.com | Analysis Requests | 480-138513 COC | | | | | | | | | |
| Company: ARCADIS U.S. Inc | | | | | Preservation Codes: | | | | | | | | |
| Address: 855 Route 146 Suite 210 | Due Date Requested: | | | | A - HCL | M - Hexane | | | | | | | |
| City: Clifton Park | TAT Requested (days): | | | | B - NaOH | N - None | | | | | | | |
| State, Zip: NY, 12065 | <i>Standard</i> | | | | C - Zn Acetate | O - AsNaO2 | | | | | | | |
| Phone: 518-250-7300(Tel) | PO #: Project 00266401.0000 | | | | D - Nitric Acid | P - Na2O4S | | | | | | | |
| Email: katie.bidwell@arcadis-us.com | WO #: Contract D007618 | | | | E - NaHSO4 | Q - Na2SO3 | | | | | | | |
| Project Name: NYSDEC-Standby VESTAL | Project #: 48005198 | | | | F - MeOH | R - Na2SO4 | | | | | | | |
| Site: <i>Vestal Water Supply</i> | SSOW#: | | | | G - Amchlor | S - H2SO4 | | | | | | | |
| | | Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=waste/oil, B=Tissue, A=air) | Field/Filled Sample Yes or No | Preservation Code: | Total Number of Contaminants | Special Instructions/Note: | | | |
| Well 1-2A | <i>070618</i> | <i>07/06/18</i> | <i>1040</i> | <i>G</i> | Water | | <i>A</i> | <i>N</i> | <i>W</i> | <i>W</i> | | | |
| Well 1-3 | <i>070618</i> | | <i>1050</i> | | Water | | <i>N</i> | <i>X</i> | <i>W</i> | <i>W</i> | | | |
| Well 1-3 POST | <i>070618</i> | | <i>1045</i> | | Water | | <i>N</i> | <i>X</i> | <i>W</i> | <i>W</i> | | | |
| Trip Blanks | <i>070618</i> | | - | - | Water | | <i>N</i> | <i>X</i> | <i>W</i> | <i>W</i> | | | |
| <i>Craig</i> | | | | | | | | | | | | | |
| <i>7-6-2018</i> | | | | | | | | | | | | | |
| Possible Hazard Identification | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | | | | | | | |
| Deliverable Requested: I, II, III, IV, Other (specify) | | | | | Special Instructions/QC Requirements: | | | | | | | | |
| Empty Kit Relinquished by: | | Date: | Time: | Method of Shipment: | | | | | | | | | |
| <i>Ai Thomas</i> | | <i>7-6-2018 1450</i> | <i>ARCADIS</i> | <i>Judie Stone</i> | | Date/Time: | <i>7-6-18 1450</i> | Company | | | | | |
| <i>Judie Stone</i> | | <i>7-6-18 1800</i> | <i>TA</i> | <i>Judie Stone</i> | | Date/Time: | <i>7-7-18 0030</i> | Company | | | | | |
| Relinquished by: | | Date/Time: | Company | Received by: | | Date/Time: | | Company | | | | | |
| Custody Seals Intact: | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | | | | | <i>0.3 #1</i> | | | |
| <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | Ver: 08/04/2016 | | | |

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-138513-1

Login Number: 138513

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: 480-140113-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff

Authorized for release by:

8/21/2018 4:26:13 PM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

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results through

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Expert

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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.

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Definitions/Glossary

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

TestAmerica Job ID: 480-140113-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|---|
| * | LCS or LCSD is outside acceptance limits. |
| U | Analyzed for but not detected. |
| J | Indicates an estimated value. |

Glossary

Abbreviation These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| dw | 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: 480-140113-1

Job ID: 480-140113-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-140113-1

Receipt

The samples were received on 8/9/2018 1:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 0.5° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-428936 recovered outside acceptance criteria, low biased, for Chloromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. The following samples are impacted: WELL 1-2A (08082018) (480-140113-1), WELL 1-3 (08082018) (480-140113-2), WELL 1-3 POST (08082018) (480-140113-3) and TRIP BLANKS (480-140113-4).

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) and/or laboratory control sample duplicate (LCSD) associated with batch 480-428936. The following samples were affected : WELL 1-2A (08082018) (480-140113-1), WELL 1-3 (08082018) (480-140113-2), WELL 1-3 POST (08082018) (480-140113-3) and TRIP BLANKS (480-140113-4).

Method(s) 8260C: The laboratory control sample (LCS) and / or laboratory control sample duplicate (LCSD) for analytical batch 480-428936 recovered outside control limits for the following analytes: 1,1,1-Trichloroethane and Tetrachloroethene. 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: WELL 1-2A (08082018) (480-140113-1), WELL 1-3 (08082018) (480-140113-2), WELL 1-3 POST (08082018) (480-140113-3) and TRIP BLANKS (480-140113-4).

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-428936 recovered above the upper control limit for 1,1,2-Trichloro-1,2,2-trifluoroethane and 1,2,3-Trimethylbenzene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: WELL 1-2A (08082018) (480-140113-1), WELL 1-3 (08082018) (480-140113-2), WELL 1-3 POST (08082018) (480-140113-3) and TRIP BLANKS (480-140113-4).

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: 480-140113-1

Client Sample ID: WELL 1-2A (08082018)

Lab Sample ID: 480-140113-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: WELL 1-3 (08082018)

Lab Sample ID: 480-140113-2

No Detections.

Client Sample ID: WELL 1-3 POST (08082018)

Lab Sample ID: 480-140113-3

No Detections.

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-140113-4

| 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 |

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: 480-140113-1

Client Sample ID: WELL 1-2A (08082018)

Lab Sample ID: 480-140113-1

Matrix: Water

Date Collected: 08/08/18 12:50

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U * | 1.0 | 0.82 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 08/10/18 01:20 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 08/10/18 01:20 | 1 |
| 2-Butanone (MEK) | 10 | U * | 10 | 1.3 | ug/L | | | 08/10/18 01:20 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 08/10/18 01:20 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 08/10/18 01:20 | 1 |
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | | | 08/10/18 01:20 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 01:20 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 01:20 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 01:20 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 08/10/18 01:20 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 08/10/18 01:20 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 08/10/18 01:20 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 01:20 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 01:20 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 08/10/18 01:20 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 08/10/18 01:20 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 08/10/18 01:20 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/10/18 01:20 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 08/10/18 01:20 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 01:20 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 08/10/18 01:20 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 08/10/18 01:20 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 01:20 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 08/10/18 01:20 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 01:20 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 01:20 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/10/18 01:20 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 01:20 | 1 |
| Tetrachloroethene | 1.0 | U * | 1.0 | 0.36 | ug/L | | | 08/10/18 01:20 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/10/18 01:20 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/10/18 01:20 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 08/10/18 01:20 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/10/18 01:20 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 08/10/18 01:20 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

Client Sample ID: WELL 1-2A (08082018)

Lab Sample ID: 480-140113-1

Matrix: Water

Date Collected: 08/08/18 12:50

Date Received: 08/09/18 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 | | | 08/10/18 01:20 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 08/10/18 01:20 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 77 - 120 | | | | | 08/10/18 01:20 | 1 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 | | | | | 08/10/18 01:20 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | | | | 08/10/18 01:20 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | | | | 08/10/18 01:20 | 1 |

Client Sample ID: WELL 1-3 (08082018)

Lab Sample ID: 480-140113-2

Matrix: Water

Date Collected: 08/08/18 13:05

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U * | 1.0 | 0.82 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 08/10/18 01:44 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 08/10/18 01:44 | 1 |
| 2-Butanone (MEK) | 10 | U * | 10 | 1.3 | ug/L | | | 08/10/18 01:44 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 08/10/18 01:44 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 08/10/18 01:44 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 08/10/18 01:44 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 01:44 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 01:44 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 01:44 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 08/10/18 01:44 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 08/10/18 01:44 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 08/10/18 01:44 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 01:44 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 01:44 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 08/10/18 01:44 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 08/10/18 01:44 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 08/10/18 01:44 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/10/18 01:44 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 08/10/18 01:44 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 01:44 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

Client Sample ID: WELL 1-3 (08082018)

Lab Sample ID: 480-140113-2

Matrix: Water

Date Collected: 08/08/18 13:05

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|------------------|------------------|---------------|------|---|-----------------|-----------------|----------------|
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | 08/10/18 01:44 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 08/10/18 01:44 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 08/10/18 01:44 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 08/10/18 01:44 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 08/10/18 01:44 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 08/10/18 01:44 | | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | 08/10/18 01:44 | | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | 08/10/18 01:44 | | 1 |
| Tetrachloroethene | 1.0 | U * | 1.0 | 0.36 | ug/L | | 08/10/18 01:44 | | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | 08/10/18 01:44 | | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | 08/10/18 01:44 | | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | 08/10/18 01:44 | | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | 08/10/18 01:44 | | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | 08/10/18 01:44 | | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | 08/10/18 01:44 | | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | 08/10/18 01:44 | | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | | 77 - 120 | | | | 08/10/18 01:44 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | | 73 - 120 | | | | 08/10/18 01:44 | 1 |
| Dibromofluoromethane (Surr) | 106 | | | 75 - 123 | | | | 08/10/18 01:44 | 1 |
| Toluene-d8 (Surr) | 100 | | | 80 - 120 | | | | 08/10/18 01:44 | 1 |

Client Sample ID: WELL 1-3 POST (08082018)

Lab Sample ID: 480-140113-3

Matrix: Water

Date Collected: 08/08/18 13:00

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------------|----------|---------|
| 1,1,1-Trichloroethane | 1.0 | U * | 1.0 | 0.82 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 08/10/18 02:08 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 08/10/18 02:08 | | 1 |
| 2-Butanone (MEK) | 10 | U * | 10 | 1.3 | ug/L | | 08/10/18 02:08 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 08/10/18 02:08 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 08/10/18 02:08 | | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | 08/10/18 02:08 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

Client Sample ID: WELL 1-3 POST (08082018)

Lab Sample ID: 480-140113-3

Matrix: Water

Date Collected: 08/08/18 13:00

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 02:08 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 02:08 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 02:08 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 08/10/18 02:08 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 08/10/18 02:08 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 08/10/18 02:08 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 02:08 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 02:08 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 08/10/18 02:08 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 08/10/18 02:08 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 08/10/18 02:08 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/10/18 02:08 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 08/10/18 02:08 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 02:08 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 08/10/18 02:08 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 08/10/18 02:08 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 02:08 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 08/10/18 02:08 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 02:08 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 02:08 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/10/18 02:08 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 02:08 | 1 |
| Tetrachloroethene | 1.0 | U * | 1.0 | 0.36 | ug/L | | | 08/10/18 02:08 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/10/18 02:08 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/10/18 02:08 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 08/10/18 02:08 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/10/18 02:08 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 08/10/18 02:08 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/10/18 02:08 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 08/10/18 02:08 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 119 | | 77 - 120 | | | | | 08/10/18 02:08 | 1 |
| 4-Bromofluorobenzene (Surr) | 106 | | 73 - 120 | | | | | 08/10/18 02:08 | 1 |
| Dibromofluoromethane (Surr) | 115 | | 75 - 123 | | | | | 08/10/18 02:08 | 1 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 | | | | | 08/10/18 02:08 | 1 |

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-140113-4

Matrix: Water

Date Collected: 08/08/18 00:00

Date Received: 08/09/18 01:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U * | 1.0 | 0.82 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 02:32 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

Client Sample ID: TRIP BLANKS

Date Collected: 08/08/18 00:00

Date Received: 08/09/18 01:00

Lab Sample ID: 480-140113-4

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 08/10/18 02:32 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 08/10/18 02:32 | 1 |
| 2-Butanone (MEK) | 10 | U * | 10 | 1.3 | ug/L | | | 08/10/18 02:32 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 08/10/18 02:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 08/10/18 02:32 | 1 |
| Acetone | 3.0 | J | 10 | 3.0 | ug/L | | | 08/10/18 02:32 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/10/18 02:32 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/10/18 02:32 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/10/18 02:32 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 08/10/18 02:32 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 08/10/18 02:32 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 08/10/18 02:32 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/10/18 02:32 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 02:32 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 08/10/18 02:32 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 08/10/18 02:32 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 08/10/18 02:32 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/10/18 02:32 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 08/10/18 02:32 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/10/18 02:32 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 08/10/18 02:32 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 08/10/18 02:32 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/10/18 02:32 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 08/10/18 02:32 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 02:32 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/10/18 02:32 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/10/18 02:32 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/10/18 02:32 | 1 |
| Tetrachloroethene | 1.0 | U * | 1.0 | 0.36 | ug/L | | | 08/10/18 02:32 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/10/18 02:32 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/10/18 02:32 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 08/10/18 02:32 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/10/18 02:32 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 08/10/18 02:32 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/10/18 02:32 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 08/10/18 02:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 77 - 120 | | | | 08/10/18 02:32 | 1 | |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 | | | | 08/10/18 02:32 | 1 | |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | | | 08/10/18 02:32 | 1 | |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | | | 08/10/18 02:32 | 1 | |

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | DCA (77-120) | BFB (73-120) | DBFM (75-123) | TOL (80-120) | | | | |
|-------------------|--------------------------|-----------------|-----------------|------------------|-----------------|--|--|--|--|
| 480-140113-1 | WELL 1-2A (08082018) | 109 | 105 | 110 | 102 | | | | |
| 480-140113-2 | WELL 1-3 (08082018) | 108 | 103 | 106 | 100 | | | | |
| 480-140113-3 | WELL 1-3 POST (08082018) | 119 | 106 | 115 | 99 | | | | |
| 480-140113-4 | TRIP BLANKS | 110 | 103 | 110 | 100 | | | | |
| LCS 480-428936/5 | Lab Control Sample | 114 | 103 | 108 | 99 | | | | |
| LCSD 480-428936/6 | Lab Control Sample Dup | 118 | 105 | 109 | 102 | | | | |
| MB 480-428936/8 | Method Blank | 117 | 104 | 111 | 102 | | | | |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

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

Lab Sample ID: MB 480-428936/8

Matrix: Water

Analysis Batch: 428936

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 08/09/18 22:25 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 08/09/18 22:25 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 08/09/18 22:25 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 08/09/18 22:25 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 08/09/18 22:25 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 08/09/18 22:25 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 08/09/18 22:25 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 08/09/18 22:25 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 08/09/18 22:25 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 08/09/18 22:25 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 08/09/18 22:25 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 08/09/18 22:25 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 08/09/18 22:25 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/09/18 22:25 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 08/09/18 22:25 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 08/09/18 22:25 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 08/09/18 22:25 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/09/18 22:25 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 08/09/18 22:25 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 08/09/18 22:25 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 08/09/18 22:25 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 08/09/18 22:25 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 08/09/18 22:25 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 08/09/18 22:25 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/09/18 22:25 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 08/09/18 22:25 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 08/09/18 22:25 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 08/09/18 22:25 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 08/09/18 22:25 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 08/09/18 22:25 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/09/18 22:25 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 08/09/18 22:25 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 08/09/18 22:25 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

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

Lab Sample ID: MB 480-428936/8

Matrix: Water

Analysis Batch: 428936

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 08/09/18 22:25 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 08/09/18 22:25 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 08/09/18 22:25 | 1 |

| Surrogate | MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 77 - 120 | | 08/09/18 22:25 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 | | 08/09/18 22:25 | 1 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | 08/09/18 22:25 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | 08/09/18 22:25 | 1 |

Lab Sample ID: LCS 480-428936/5

Matrix: Water

Analysis Batch: 428936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits |
|---|----------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| 1,1,1-Trichloroethane | 25.0 | 31.9 | * | ug/L | | 128 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 26.1 | | ug/L | | 104 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | 25.0 | 30.5 | | ug/L | | 122 | 61 - 148 |
| 1,1,2-Trichloroethane | 25.0 | 26.4 | | ug/L | | 105 | 76 - 122 |
| 1,1-Dichloroethane | 25.0 | 28.4 | | ug/L | | 114 | 77 - 120 |
| 1,1-Dichloroethene | 25.0 | 30.7 | | ug/L | | 123 | 66 - 127 |
| 1,2,3-Trimethylbenzene | 25.0 | 28.4 | | ug/L | | 114 | 78 - 120 |
| 1,2,4-Trichlorobenzene | 25.0 | 27.0 | | ug/L | | 108 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.4 | | ug/L | | 110 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 29.1 | | ug/L | | 116 | 56 - 134 |
| 1,2-Dibromoethane | 25.0 | 27.6 | | ug/L | | 111 | 77 - 120 |
| 1,2-Dichlorobenzene | 25.0 | 26.9 | | ug/L | | 108 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 28.5 | | ug/L | | 114 | 75 - 120 |
| 1,2-Dichloropropane | 25.0 | 26.4 | | ug/L | | 106 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 25.0 | 27.5 | | ug/L | | 110 | 77 - 121 |
| 1,3-Dichlorobenzene | 25.0 | 27.2 | | ug/L | | 109 | 77 - 120 |
| 1,4-Dichlorobenzene | 25.0 | 27.0 | | ug/L | | 108 | 80 - 120 |
| 2-Butanone (MEK) | 125 | 228 | * | ug/L | | 182 | 57 - 140 |
| 2-Hexanone | 125 | 149 | | ug/L | | 119 | 65 - 127 |
| 4-Methyl-2-pentanone (MIBK) | 125 | 144 | | ug/L | | 115 | 71 - 125 |
| Acetone | 125 | 174 | | ug/L | | 139 | 56 - 142 |
| Benzene | 25.0 | 27.0 | | ug/L | | 108 | 71 - 124 |
| Bromodichloromethane | 25.0 | 30.0 | | ug/L | | 120 | 80 - 122 |
| Bromoform | 25.0 | 30.7 | | ug/L | | 123 | 61 - 132 |
| Bromomethane | 25.0 | 21.7 | | ug/L | | 87 | 55 - 144 |
| Carbon disulfide | 25.0 | 29.7 | | ug/L | | 119 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 30.9 | | ug/L | | 124 | 72 - 134 |
| Chlorobenzene | 25.0 | 28.5 | | ug/L | | 114 | 80 - 120 |
| Chloroethane | 25.0 | 23.6 | | ug/L | | 94 | 69 - 136 |
| Chloroform | 25.0 | 28.6 | | ug/L | | 114 | 73 - 127 |
| Chloromethane | 25.0 | 19.6 | | ug/L | | 78 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 26.5 | | ug/L | | 106 | 74 - 124 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

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

Lab Sample ID: LCS 480-428936/5

Matrix: Water

Analysis Batch: 428936

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike | LCS | | Unit | D | %Rec | %Rec. |
|---------------------------|-------|--------|-----------|------|---|------|----------|
| | Added | Result | Qualifier | | | | |
| cis-1,3-Dichloropropene | 25.0 | 28.8 | | ug/L | | 115 | 74 - 124 |
| Cyclohexane | 25.0 | 29.0 | | ug/L | | 116 | 59 - 135 |
| Dibromochloromethane | 25.0 | 30.9 | | ug/L | | 124 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 16.4 | | ug/L | | 66 | 59 - 135 |
| Ethylbenzene | 25.0 | 27.9 | | ug/L | | 112 | 77 - 123 |
| Isopropylbenzene | 25.0 | 28.3 | | ug/L | | 113 | 77 - 122 |
| Methyl acetate | 50.0 | 55.3 | | ug/L | | 111 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 26.7 | | ug/L | | 107 | 77 - 120 |
| Methylcyclohexane | 25.0 | 28.4 | | ug/L | | 114 | 68 - 134 |
| Methylene Chloride | 25.0 | 28.5 | | ug/L | | 114 | 75 - 124 |
| Styrene | 25.0 | 27.6 | | ug/L | | 110 | 80 - 120 |
| Tetrachloroethene | 25.0 | 34.6 | * | ug/L | | 138 | 74 - 122 |
| Toluene | 25.0 | 26.3 | | ug/L | | 105 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 27.2 | | ug/L | | 109 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 27.3 | | ug/L | | 109 | 80 - 120 |
| Trichloroethene | 25.0 | 28.7 | | ug/L | | 115 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 24.2 | | ug/L | | 97 | 62 - 150 |
| Vinyl chloride | 25.0 | 20.3 | | ug/L | | 81 | 65 - 133 |

| Surrogate | LCS | LCS | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 108 | | 75 - 123 |
| Toluene-d8 (Surr) | 99 | | 80 - 120 |

Lab Sample ID: LCSD 480-428936/6

Matrix: Water

Analysis Batch: 428936

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

| Analyte | Spike | LCSD | | Unit | D | %Rec | %Rec. | RPD | RPD Limit |
|---------------------------------------|-------|--------|-----------|------|---|------|----------|-----|-----------|
| | Added | Result | Qualifier | | | | | | |
| 1,1,1-Trichloroethane | 25.0 | 29.0 | | ug/L | | 116 | 73 - 126 | 10 | 15 |
| 1,1,2,2-Tetrachloroethane | 25.0 | 27.2 | | ug/L | | 109 | 76 - 120 | 4 | 15 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 25.0 | 28.5 | | ug/L | | 114 | 61 - 148 | 7 | 20 |
| ne | | | | | | | | | |
| 1,1,2-Trichloroethane | 25.0 | 26.2 | | ug/L | | 105 | 76 - 122 | 0 | 15 |
| 1,1-Dichloroethane | 25.0 | 28.3 | | ug/L | | 113 | 77 - 120 | 1 | 20 |
| 1,1-Dichloroethene | 25.0 | 28.9 | | ug/L | | 116 | 66 - 127 | 6 | 16 |
| 1,2,3-Trimethylbenzene | 25.0 | 28.3 | | ug/L | | 113 | 78 - 120 | 0 | 20 |
| 1,2,4-Trichlorobenzene | 25.0 | 26.4 | | ug/L | | 106 | 79 - 122 | 2 | 20 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.1 | | ug/L | | 108 | 76 - 121 | 1 | 20 |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 26.6 | | ug/L | | 106 | 56 - 134 | 9 | 15 |
| 1,2-Dibromoethane | 25.0 | 26.3 | | ug/L | | 105 | 77 - 120 | 5 | 15 |
| 1,2-Dichlorobenzene | 25.0 | 26.8 | | ug/L | | 107 | 80 - 124 | 0 | 20 |
| 1,2-Dichloroethane | 25.0 | 27.2 | | ug/L | | 109 | 75 - 120 | 5 | 20 |
| 1,2-Dichloropropane | 25.0 | 27.1 | | ug/L | | 108 | 76 - 120 | 2 | 20 |
| 1,3,5-Trimethylbenzene | 25.0 | 26.9 | | ug/L | | 108 | 77 - 121 | 2 | 20 |
| 1,3-Dichlorobenzene | 25.0 | 27.8 | | ug/L | | 111 | 77 - 120 | 2 | 20 |
| 1,4-Dichlorobenzene | 25.0 | 26.5 | | ug/L | | 106 | 80 - 120 | 2 | 20 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-140113-1

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

Lab Sample ID: LCSD 480-428936/6

Matrix: Water

Analysis Batch: 428936

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

| Analyte | Spike | LCSD | LCSD | Unit | D | %Rec | %Rec. | | RPD | RPD |
|-----------------------------|-------|--------|-----------|------|-----|----------|--------|-------|-----|-----|
| | Added | Result | Qualifier | | | | Limits | Limit | | |
| 2-Butanone (MEK) | 125 | 276 | * | ug/L | 221 | 57 - 140 | 19 | 20 | | |
| 2-Hexanone | 125 | 147 | | ug/L | 118 | 65 - 127 | 1 | 15 | | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 140 | | ug/L | 112 | 71 - 125 | 3 | 35 | | |
| Acetone | 125 | 173 | | ug/L | 138 | 56 - 142 | 1 | 15 | | |
| Benzene | 25.0 | 26.4 | | ug/L | 105 | 71 - 124 | 2 | 13 | | |
| Bromodichloromethane | 25.0 | 29.3 | | ug/L | 117 | 80 - 122 | 2 | 15 | | |
| Bromoform | 25.0 | 30.3 | | ug/L | 121 | 61 - 132 | 1 | 15 | | |
| Bromomethane | 25.0 | 20.7 | | ug/L | 83 | 55 - 144 | 5 | 15 | | |
| Carbon disulfide | 25.0 | 27.6 | | ug/L | 110 | 59 - 134 | 7 | 15 | | |
| Carbon tetrachloride | 25.0 | 30.4 | | ug/L | 121 | 72 - 134 | 2 | 15 | | |
| Chlorobenzene | 25.0 | 26.7 | | ug/L | 107 | 80 - 120 | 7 | 25 | | |
| Chloroethane | 25.0 | 23.2 | | ug/L | 93 | 69 - 136 | 1 | 15 | | |
| Chloroform | 25.0 | 27.9 | | ug/L | 111 | 73 - 127 | 3 | 20 | | |
| Chloromethane | 25.0 | 19.4 | | ug/L | 78 | 68 - 124 | 1 | 15 | | |
| cis-1,2-Dichloroethene | 25.0 | 26.7 | | ug/L | 107 | 74 - 124 | 1 | 15 | | |
| cis-1,3-Dichloropropene | 25.0 | 27.5 | | ug/L | 110 | 74 - 124 | 5 | 15 | | |
| Cyclohexane | 25.0 | 27.0 | | ug/L | 108 | 59 - 135 | 7 | 20 | | |
| Dibromochloromethane | 25.0 | 31.0 | | ug/L | 124 | 75 - 125 | 0 | 15 | | |
| Dichlorodifluoromethane | 25.0 | 15.9 | | ug/L | 63 | 59 - 135 | 3 | 20 | | |
| Ethylbenzene | 25.0 | 26.6 | | ug/L | 107 | 77 - 123 | 5 | 15 | | |
| Isopropylbenzene | 25.0 | 27.9 | | ug/L | 112 | 77 - 122 | 1 | 20 | | |
| Methyl acetate | 50.0 | 55.3 | | ug/L | 111 | 74 - 133 | 0 | 20 | | |
| Methyl tert-butyl ether | 25.0 | 26.3 | | ug/L | 105 | 77 - 120 | 1 | 37 | | |
| Methylcyclohexane | 25.0 | 25.4 | | ug/L | 102 | 68 - 134 | 11 | 20 | | |
| Methylene Chloride | 25.0 | 27.6 | | ug/L | 110 | 75 - 124 | 3 | 15 | | |
| Styrene | 25.0 | 26.5 | | ug/L | 106 | 80 - 120 | 4 | 20 | | |
| Tetrachloroethene | 25.0 | 34.5 | * | ug/L | 138 | 74 - 122 | 0 | 20 | | |
| Toluene | 25.0 | 26.1 | | ug/L | 104 | 80 - 122 | 1 | 15 | | |
| trans-1,2-Dichloroethene | 25.0 | 27.6 | | ug/L | 110 | 73 - 127 | 1 | 20 | | |
| trans-1,3-Dichloropropene | 25.0 | 27.6 | | ug/L | 110 | 80 - 120 | 1 | 15 | | |
| Trichloroethene | 25.0 | 27.0 | | ug/L | 108 | 74 - 123 | 6 | 16 | | |
| Trichlorofluoromethane | 25.0 | 22.7 | | ug/L | 91 | 62 - 150 | 6 | 20 | | |
| Vinyl chloride | 25.0 | 20.1 | | ug/L | 80 | 65 - 133 | 1 | 15 | | |

| Surrogate | LCSD | LCSD | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 118 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 109 | | 75 - 123 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 |

TestAmerica Buffalo

QC Association Summary

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

TestAmerica Job ID: 480-140113-1

GC/MS VOA

Analysis Batch: 428936

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------------|-----------|--------|--------|------------|
| 480-140113-1 | WELL 1-2A (08082018) | Total/NA | Water | 8260C | 5 |
| 480-140113-2 | WELL 1-3 (08082018) | Total/NA | Water | 8260C | 6 |
| 480-140113-3 | WELL 1-3 POST (08082018) | Total/NA | Water | 8260C | 7 |
| 480-140113-4 | TRIP BLANKS | Total/NA | Water | 8260C | 8 |
| MB 480-428936/8 | Method Blank | Total/NA | Water | 8260C | 9 |
| LCS 480-428936/5 | Lab Control Sample | Total/NA | Water | 8260C | 10 |
| LCSD 480-428936/6 | Lab Control Sample Dup | Total/NA | Water | 8260C | 11 |

Lab Chronicle

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

TestAmerica Job ID: 480-140113-1

Client Sample ID: WELL 1-2A (08082018)

Lab Sample ID: 480-140113-1

Matrix: Water

Date Collected: 08/08/18 12:50
Date Received: 08/09/18 01:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 428936 | 08/10/18 01:20 | KMN | TAL BUF |

Client Sample ID: WELL 1-3 (08082018)

Lab Sample ID: 480-140113-2

Matrix: Water

Date Collected: 08/08/18 13:05
Date Received: 08/09/18 01:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 428936 | 08/10/18 01:44 | KMN | TAL BUF |

Client Sample ID: WELL 1-3 POST (08082018)

Lab Sample ID: 480-140113-3

Matrix: Water

Date Collected: 08/08/18 13:00
Date Received: 08/09/18 01:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 428936 | 08/10/18 02:08 | KMN | TAL BUF |

Client Sample ID: TRIP BLANKS

Lab Sample ID: 480-140113-4

Matrix: Water

Date Collected: 08/08/18 00:00
Date Received: 08/09/18 01:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 428936 | 08/10/18 02:32 | KMN | 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: 480-140113-1

Laboratory: TestAmerica Buffalo

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

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

The following analytes are included in this report, but 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: 480-140113-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

TestAmerica Job ID: 480-140113-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|--------------------------|--------|----------------|----------------|
| 480-140113-1 | WELL 1-2A (08082018) | Water | 08/08/18 12:50 | 08/09/18 01:00 |
| 480-140113-2 | WELL 1-3 (08082018) | Water | 08/08/18 13:05 | 08/09/18 01:00 |
| 480-140113-3 | WELL 1-3 POST (08082018) | Water | 08/08/18 13:00 | 08/09/18 01:00 |
| 480-140113-4 | TRIP BLANKS | Water | 08/08/18 00:00 | 08/09/18 01:00 |

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Chain of
Custody Record

480501-Albany

TAL-4124 (1007)

Temperature on Receipt _____

Drinking Water? Yes No

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING



480-140113 COC

| | | | | | |
|--|--------------------|--------------------------|--|----------------------------------|--|
| Client ARCADIS | | | Project Manager Andy Vitolins | Date 8/8/2018 | Chain of Custody Number 223376 |
| Address 855 Rate 146 Suite 210 | | | Telephone Number (Area Code)/Fax Number (518) 250-7300 | Lab Number | |
| City Clifton Park | State NY | Zip Code 12065 | Site Contact Kate Bidwell | Lab Contact Judy Stone | Page 1 of 1 |

Project Name and Location (State)
NYSDDEC Standby VESTAL, New YorkContract/Purchase Order/Quote No.
00266401.0000 / WCH Contract #**0007618**
project #**48005198**Sample I.D. No. and Description
(Containers for each sample may be combined on one line)

| Sample I.D. No. and Description | Date | Time | Matrix | Containers & Preservatives |
|---------------------------------|--------|------|--------|----------------------------|
| Well 1-2A (08082018) | 8/8/18 | 1250 | | |
| Well 1-3 (08082018) | 8/8/18 | 1305 | X | |
| Well 1-3 POST (08082018) | 8/8/18 | 1300 | X | X |
| Trp Blanks | - | - | X | X |

Special Instructions/
Conditions of Receipt
WCH 8-8-2018

| | | |
|---|---|---|
| Possible Hazard Identification | Sample Disposal | (A fee may be assessed if samples are retained longer than 1 month) |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | |

Turn Around Time Required
 24 Hours 48 Hours 7 Days 14 Days 21 Days Other **Standard**

QC Requirements (Specify)

1. Relinquished By
Arcadis / Arcadis Date **8/8/2018** Time **1550**

2. Relinquished By Date Time

3. Relinquished By Date Time

Comments
#1 0.5

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-140113-1

Login Number: 140113

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: 480-142551-1

Client Project/Site: NYSDEC-Standby VESTAL

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Mr. Jeremy Wyckoff

Judy Stone

Authorized for release by:

10/10/2018 11:34:43 AM

Judy Stone, Senior Project Manager

(484)685-0868

judy.stone@testamericainc.com

LINKS

Review your project
results through

Total Access

Have a Question?

Ask
The
Expert

Visit us at:

www.testamericainc.com

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

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

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

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Definitions/Glossary

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

TestAmerica Job ID: 480-142551-1

Qualifiers

GC/MS VOA

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

Glossary

Abbreviation

These commonly used abbreviations may or may not be present in this report.

| | |
|----------------|---|
| □ | Listed under the "D" column to designate that the result is reported on a dry weight basis |
| %R | Percent Recovery |
| CFL | Contains Free Liquid |
| CNF | Contains No Free Liquid |
| DER | Duplicate Error Ratio (normalized absolute difference) |
| Dil Fac | Dilution Factor |
| DL | 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: 480-142551-1

Job ID: 480-142551-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-142551-1

Receipt

The samples were received on 9/28/2018 1:30 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.1° C.

GC/MS VOA

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: 4009-29I (480-142551-1), 4009-29D (480-142551-2), DUP1 (480-142551-6), DUP2 (480-142551-7), 4009-26 (480-142551-8), 4009-8 (480-142551-12), WELL 1-1 (480-142551-13), (480-142551-A-12 MS), (480-142551-A-12 MSD), 4009-27S (480-142551-28), 4009-29S (480-142551-32), (480-142551-A-32 MS) and (480-142551-A-32 MSD). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: Due to the high concentration of 1,1,1-Trichloroethane, cis-1,2-Dichloroethene and Trichloroethene the matrix spike / matrix spike duplicate (MS/MSD) for analytical batch 480-437600 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria.

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 480-437800 recovered above the upper control limit for Dibromochloromethane and Methylene Chloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: DUP1 (480-142551-6), 4009-12 (480-142551-17), 4009-13 (480-142551-18), 4009-13A (480-142551-19), 4009-14 (480-142551-20), 4009-15 (480-142551-21), 4009-16 (480-142551-22), 4009-16A (480-142551-23), 4009-18 (480-142551-24), 4009-19 (480-142551-25), 4009-21 (480-142551-26), 4009-22 (480-142551-27), 4009-27S (480-142551-28), 4009-27I (480-142551-29), 4009-27D (480-142551-30), 4009-28 (480-142551-31) and 4009-29S (480-142551-32).

Method(s) 8260C: The laboratory control sample (LCS) for analytical batch 480-437800 recovered outside control limits for the following analyte: Dibromochloromethane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported. The following samples are impacted: DUP1 (480-142551-6), 4009-12 (480-142551-17), 4009-13 (480-142551-18), 4009-13A (480-142551-19), 4009-14 (480-142551-20), 4009-15 (480-142551-21), 4009-16 (480-142551-22), 4009-16A (480-142551-23), 4009-18 (480-142551-24), 4009-19 (480-142551-25), 4009-21 (480-142551-26), 4009-22 (480-142551-27), 4009-27S (480-142551-28), 4009-27I (480-142551-29), 4009-27D (480-142551-30), 4009-28 (480-142551-31) and 4009-29S (480-142551-32).

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: 480-142551-1

Client Sample ID: 4009-29I

Lab Sample ID: 480-142551-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 990 | | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 84 | | 20 | 7.6 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 82 | | 20 | 5.8 | ug/L | 20 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 380 | | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| Trichloroethene | 400 | | 20 | 9.2 | ug/L | 20 | | 8260C | Total/NA |
| Vinyl chloride | 79 | | 20 | 18 | ug/L | 20 | | 8260C | Total/NA |

Client Sample ID: 4009-29D

Lab Sample ID: 480-142551-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 150 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 29 | | 5.0 | 1.9 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 13 | | 5.0 | 1.5 | ug/L | 5 | | 8260C | Total/NA |
| Chloroethane | 3.6 | J | 5.0 | 1.6 | ug/L | 5 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 77 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| Trichloroethene | 16 | | 5.0 | 2.3 | ug/L | 5 | | 8260C | Total/NA |
| Vinyl chloride | 35 | | 5.0 | 4.5 | ug/L | 5 | | 8260C | Total/NA |

Client Sample ID: 4009-30

Lab Sample ID: 480-142551-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.5 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 33 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-30A

Lab Sample ID: 480-142551-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-11A

Lab Sample ID: 480-142551-5

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

Client Sample ID: DUP1

Lab Sample ID: 480-142551-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 130 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 15 | | 5.0 | 1.9 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 11 | | 5.0 | 1.5 | ug/L | 5 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 43 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| Trichloroethene | 38 | | 5.0 | 2.3 | ug/L | 5 | | 8260C | Total/NA |
| Vinyl chloride | 31 | | 5.0 | 4.5 | ug/L | 5 | | 8260C | Total/NA |

Client Sample ID: DUP2

Lab Sample ID: 480-142551-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 1000 | | 40 | 33 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 90 | | 40 | 15 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 97 | | 40 | 12 | ug/L | 40 | | 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: 480-142551-1

Client Sample ID: DUP2 (Continued)

Lab Sample ID: 480-142551-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| cis-1,2-Dichloroethene | 430 | | 40 | 32 | ug/L | 40 | | 8260C | Total/NA |
| Trichloroethene | 410 | | 40 | 18 | ug/L | 40 | | 8260C | Total/NA |
| Vinyl chloride | 79 | | 40 | 36 | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: 4009-26

Lab Sample ID: 480-142551-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 350 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | | 5.0 | 1.6 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 42 | | 5.0 | 1.9 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 17 | | 5.0 | 1.5 | ug/L | 5 | | 8260C | Total/NA |
| Chloroethane | 2.0 | J | 5.0 | 1.6 | ug/L | 5 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 170 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| Trichloroethene | 140 | | 5.0 | 2.3 | ug/L | 5 | | 8260C | Total/NA |
| Vinyl chloride | 13 | | 5.0 | 4.5 | ug/L | 5 | | 8260C | Total/NA |

Client Sample ID: TRIP BLANK1

Lab Sample ID: 480-142551-9

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 2.5 | J | 10 | 1.3 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.4 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 1.3 | | 1.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: TRIP BLANK 2

Lab Sample ID: 480-142551-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 2-Butanone (MEK) | 2.4 | J | 10 | 1.3 | ug/L | 1 | | 8260C | Total/NA |
| Chloroform | 1.2 | | 1.0 | 0.34 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-7

Lab Sample ID: 480-142551-11

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 0.62 | J | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 0.53 | J | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 4.0 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.45 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 55 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.97 | J | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 7.5 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-8

Lab Sample ID: 480-142551-12

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 3700 | | 40 | 33 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 150 | | 40 | 15 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 160 | | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 910 | | 40 | 32 | ug/L | 40 | | 8260C | Total/NA |
| Trichloroethene | 580 | | 40 | 18 | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: WELL 1-1

Lab Sample ID: 480-142551-13

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: 480-142551-1

Client Sample ID: WELL 1-1 (Continued)

Lab Sample ID: 480-142551-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 220 | | 4.0 | 3.3 | ug/L | 4 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 20 | | 4.0 | 1.5 | ug/L | 4 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 18 | | 4.0 | 1.2 | ug/L | 4 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 68 | | 4.0 | 3.2 | ug/L | 4 | | 8260C | Total/NA |
| Methylene Chloride | 1.8 | J | 4.0 | 1.8 | ug/L | 4 | | 8260C | Total/NA |
| Trichloroethene | 67 | | 4.0 | 1.8 | ug/L | 4 | | 8260C | Total/NA |

Client Sample ID: 4009-9

Lab Sample ID: 480-142551-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 13 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.73 | J | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-10

Lab Sample ID: 480-142551-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.51 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-11

Lab Sample ID: 480-142551-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 7.0 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 8.9 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 1.3 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.52 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.7 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-12

Lab Sample ID: 480-142551-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 95 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 11 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 6.9 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 4.4 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.73 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Chloroethane | 0.68 | J | 1.0 | 0.32 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 25 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 25 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 26 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-13

Lab Sample ID: 480-142551-18

| 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 |
| Benzene | 0.44 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-13A

Lab Sample ID: 480-142551-19

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: 480-142551-1

Client Sample ID: 4009-13A (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.8 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.6 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-15

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 7.3 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 7.3 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-16A

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.3 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-18

| Client Sample ID: 4009-18 | | | | | | | Lab Sample ID: 480-142551-24 | | |
|---------------------------|--|--|--|--|--|--|------------------------------|--|--|
| No Detections. | | | | | | | | | |

Client Sample ID: 4009-19

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Benzene | 5.3 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-22

| 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 |
| Benzene | 1.2 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.65 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-27S

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 47 | | 2.0 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.5 | 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: 480-142551-1

Client Sample ID: 4009-27S (Continued)

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 2.2 | | 2.0 | 0.76 | ug/L | 2 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 4.5 | | 2.0 | 0.58 | ug/L | 2 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 21 | | 2.0 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| Trichloroethene | 25 | | 2.0 | 0.92 | ug/L | 2 | | 8260C | Total/NA |

Client Sample ID: 4009-27I

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 4.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 1.7 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-27D

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 3.2 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-29S

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 960 | | 10 | 8.2 | ug/L | 10 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | J | 10 | 3.1 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 90 | | 10 | 3.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 74 | | 10 | 2.9 | ug/L | 10 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 470 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Trichloroethene | 150 | | 10 | 4.6 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride | 100 | | 10 | 9.0 | ug/L | 10 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-291

Date Collected: 09/27/18 10:25

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-1

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 | 990 | | 20 | 16 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,1,2,2-Tetrachloroethane | 20 | U | 20 | 4.2 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20 | U | 20 | 6.2 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,1,2-Trichloroethane | 20 | U | 20 | 4.6 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,1-Dichloroethane | 84 | | 20 | 7.6 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,1-Dichloroethene | 82 | | 20 | 5.8 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2,3-Trimethylbenzene | 20 | U | 20 | 5.2 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2,4-Trichlorobenzene | 20 | U | 20 | 8.2 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2,4-Trimethylbenzene | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2-Dibromo-3-Chloropropane | 20 | U | 20 | 7.8 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2-Dibromoethane | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2-Dichlorobenzene | 20 | U | 20 | 16 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2-Dichloroethane | 20 | U | 20 | 4.2 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,2-Dichloropropane | 20 | U | 20 | 14 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,3,5-Trimethylbenzene | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,3-Dichlorobenzene | 20 | U | 20 | 16 | ug/L | | | 10/04/18 11:40 | 20 |
| 1,4-Dichlorobenzene | 20 | U | 20 | 17 | ug/L | | | 10/04/18 11:40 | 20 |
| 2-Butanone (MEK) | 200 | U | 200 | 26 | ug/L | | | 10/04/18 11:40 | 20 |
| 2-Hexanone | 100 | U | 100 | 25 | ug/L | | | 10/04/18 11:40 | 20 |
| 4-Methyl-2-pentanone (MIBK) | 100 | U | 100 | 42 | ug/L | | | 10/04/18 11:40 | 20 |
| Acetone | 200 | U | 200 | 60 | ug/L | | | 10/04/18 11:40 | 20 |
| Benzene | 20 | U | 20 | 8.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Bromodichloromethane | 20 | U | 20 | 7.8 | ug/L | | | 10/04/18 11:40 | 20 |
| Bromoform | 20 | U | 20 | 5.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Bromomethane | 20 | U | 20 | 14 | ug/L | | | 10/04/18 11:40 | 20 |
| Carbon disulfide | 20 | U | 20 | 3.8 | ug/L | | | 10/04/18 11:40 | 20 |
| Carbon tetrachloride | 20 | U | 20 | 5.4 | ug/L | | | 10/04/18 11:40 | 20 |
| Chlorobenzene | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| Chloroethane | 20 | U | 20 | 6.4 | ug/L | | | 10/04/18 11:40 | 20 |
| Chloroform | 20 | U | 20 | 6.8 | ug/L | | | 10/04/18 11:40 | 20 |
| Chloromethane | 20 | U | 20 | 7.0 | ug/L | | | 10/04/18 11:40 | 20 |
| cis-1,2-Dichloroethene | 380 | | 20 | 16 | ug/L | | | 10/04/18 11:40 | 20 |
| cis-1,3-Dichloropropene | 20 | U | 20 | 7.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Cyclohexane | 20 | U | 20 | 3.6 | ug/L | | | 10/04/18 11:40 | 20 |
| Dibromochloromethane | 20 | U | 20 | 6.4 | ug/L | | | 10/04/18 11:40 | 20 |
| Dichlorodifluoromethane | 20 | U | 20 | 14 | ug/L | | | 10/04/18 11:40 | 20 |
| Ethylbenzene | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| Isopropylbenzene | 20 | U | 20 | 16 | ug/L | | | 10/04/18 11:40 | 20 |
| Methyl acetate | 50 | U | 50 | 26 | ug/L | | | 10/04/18 11:40 | 20 |
| Methyl tert-butyl ether | 20 | U | 20 | 3.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Methylcyclohexane | 20 | U | 20 | 3.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Methylene Chloride | 20 | U | 20 | 8.8 | ug/L | | | 10/04/18 11:40 | 20 |
| Styrene | 20 | U | 20 | 15 | ug/L | | | 10/04/18 11:40 | 20 |
| Tetrachloroethene | 20 | U | 20 | 7.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Toluene | 20 | U | 20 | 10 | ug/L | | | 10/04/18 11:40 | 20 |
| trans-1,2-Dichloroethene | 20 | U | 20 | 18 | ug/L | | | 10/04/18 11:40 | 20 |
| trans-1,3-Dichloropropene | 20 | U | 20 | 7.4 | ug/L | | | 10/04/18 11:40 | 20 |
| Trichloroethene | 400 | | 20 | 9.2 | ug/L | | | 10/04/18 11:40 | 20 |
| Trichlorofluoromethane | 20 | U | 20 | 18 | ug/L | | | 10/04/18 11:40 | 20 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-29I
Date Collected: 09/27/18 10:25
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-1
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|----------|-----|------|---|----------|----------------|---------|
| Vinyl chloride | 79 | | 20 | 18 | ug/L | | | 10/04/18 11:40 | 20 |
| Xylenes, Total | 40 | U | 40 | 13 | ug/L | | | 10/04/18 11:40 | 20 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | Prepared | 10/04/18 11:40 | 20 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 10/04/18 11:40 | 20 |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | | | | 10/04/18 11:40 | 20 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | | | | 10/04/18 11:40 | 20 |

Client Sample ID: 4009-29D
Date Collected: 09/27/18 10:30
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-2
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 | 150 | | 5.0 | 4.1 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U | 5.0 | 1.6 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,1,2-Trichloroethane | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,1-Dichloroethane | 29 | | 5.0 | 1.9 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,1-Dichloroethene | 13 | | 5.0 | 1.5 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 1.3 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2-Dibromo-3-Chloropropane | 5.0 | U | 5.0 | 2.0 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2-Dibromoethane | 5.0 | U | 5.0 | 3.7 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2-Dichloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,2-Dichloropropane | 5.0 | U | 5.0 | 3.6 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | | 10/04/18 12:06 | 5 |
| 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 4.2 | ug/L | | | 10/04/18 12:06 | 5 |
| 2-Butanone (MEK) | 50 | U | 50 | 6.6 | ug/L | | | 10/04/18 12:06 | 5 |
| 2-Hexanone | 25 | U | 25 | 6.2 | ug/L | | | 10/04/18 12:06 | 5 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 25 | 11 | ug/L | | | 10/04/18 12:06 | 5 |
| Acetone | 50 | U | 50 | 15 | ug/L | | | 10/04/18 12:06 | 5 |
| Benzene | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 12:06 | 5 |
| Bromodichloromethane | 5.0 | U | 5.0 | 2.0 | ug/L | | | 10/04/18 12:06 | 5 |
| Bromoform | 5.0 | U | 5.0 | 1.3 | ug/L | | | 10/04/18 12:06 | 5 |
| Bromomethane | 5.0 | U | 5.0 | 3.5 | ug/L | | | 10/04/18 12:06 | 5 |
| Carbon disulfide | 5.0 | U | 5.0 | 0.95 | ug/L | | | 10/04/18 12:06 | 5 |
| Carbon tetrachloride | 5.0 | U | 5.0 | 1.4 | ug/L | | | 10/04/18 12:06 | 5 |
| Chlorobenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | | 10/04/18 12:06 | 5 |
| Chloroethane | 3.6 J | | 5.0 | 1.6 | ug/L | | | 10/04/18 12:06 | 5 |
| Chloroform | 5.0 | U | 5.0 | 1.7 | ug/L | | | 10/04/18 12:06 | 5 |
| Chloromethane | 5.0 | U | 5.0 | 1.8 | ug/L | | | 10/04/18 12:06 | 5 |
| cis-1,2-Dichloroethene | 77 | | 5.0 | 4.1 | ug/L | | | 10/04/18 12:06 | 5 |
| cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.8 | ug/L | | | 10/04/18 12:06 | 5 |
| Cyclohexane | 5.0 | U | 5.0 | 0.90 | ug/L | | | 10/04/18 12:06 | 5 |
| Dibromochloromethane | 5.0 | U | 5.0 | 1.6 | ug/L | | | 10/04/18 12:06 | 5 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-29D
Date Collected: 09/27/18 10:30
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-2
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Dichlorodifluoromethane | 5.0 | U | 5.0 | 3.4 | ug/L | | 10/04/18 12:06 | | 5 |
| Ethylbenzene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 12:06 | | 5 |
| Isopropylbenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | 10/04/18 12:06 | | 5 |
| Methyl acetate | 13 | U | 13 | 6.5 | ug/L | | 10/04/18 12:06 | | 5 |
| Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 12:06 | | 5 |
| Methylcyclohexane | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 12:06 | | 5 |
| Methylene Chloride | 5.0 | U | 5.0 | 2.2 | ug/L | | 10/04/18 12:06 | | 5 |
| Styrene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 12:06 | | 5 |
| Tetrachloroethene | 5.0 | U | 5.0 | 1.8 | ug/L | | 10/04/18 12:06 | | 5 |
| Toluene | 5.0 | U | 5.0 | 2.6 | ug/L | | 10/04/18 12:06 | | 5 |
| trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 4.5 | ug/L | | 10/04/18 12:06 | | 5 |
| trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.9 | ug/L | | 10/04/18 12:06 | | 5 |
| Trichloroethene | 16 | | 5.0 | 2.3 | ug/L | | 10/04/18 12:06 | | 5 |
| Trichlorofluoromethane | 5.0 | U | 5.0 | 4.4 | ug/L | | 10/04/18 12:06 | | 5 |
| Vinyl chloride | 35 | | 5.0 | 4.5 | ug/L | | 10/04/18 12:06 | | 5 |
| Xylenes, Total | 10 | U | 10 | 3.3 | ug/L | | 10/04/18 12:06 | | 5 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | | | 10/04/18 12:06 | | 5 |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | | | 10/04/18 12:06 | | 5 |
| Dibromofluoromethane (Surr) | 109 | | 75 - 123 | | | | 10/04/18 12:06 | | 5 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | | | 10/04/18 12:06 | | 5 |

Client Sample ID: 4009-30

Lab Sample ID: 480-142551-3

Date Collected: 09/27/18 09:35
Date Received: 09/28/18 01:30

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 | | 10/04/18 12:33 | | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 10/04/18 12:33 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 10/04/18 12:33 | | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | 10/04/18 12:33 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/04/18 12:33 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 12:33 | | 1 |
| Acetone | 3.5 | J | 10 | 3.0 | ug/L | | 10/04/18 12:33 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-30

Date Collected: 09/27/18 09:35

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-3

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Benzene | 33 | | 1.0 | 0.41 | ug/L | | | 10/04/18 12:33 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 12:33 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 12:33 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 12:33 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 12:33 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 12:33 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 12:33 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 12:33 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 12:33 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 12:33 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 12:33 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 12:33 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 12:33 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 12:33 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 12:33 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 12:33 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 12:33 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 12:33 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 12:33 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 12:33 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 12:33 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 12:33 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 12:33 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 12:33 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 12:33 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 12:33 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 12:33 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 12:33 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 12:33 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 12:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | | 10/04/18 12:33 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 10/04/18 12:33 | 1 |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | | | | 10/04/18 12:33 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | | | | 10/04/18 12:33 | 1 |

Client Sample ID: 4009-30A

Date Collected: 09/27/18 09:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-4

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 | | | 10/04/18 13:00 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 13:00 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-30A

Date Collected: 09/27/18 09:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-4

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 13:00 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 13:00 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 13:00 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 13:00 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 13:00 | 1 |
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | | | 10/04/18 13:00 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 13:00 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 13:00 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 13:00 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 13:00 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 13:00 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 13:00 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 13:00 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 13:00 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 13:00 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 13:00 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 13:00 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 13:00 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 13:00 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 13:00 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 13:00 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 13:00 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 13:00 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 13:00 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 13:00 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 13:00 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 13:00 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 13:00 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 13:00 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 13:00 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 13:00 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 13:00 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 13:00 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 13:00 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 13:00 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 13:00 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | 10/04/18 13:00 | 1 | |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 13:00 | 1 | |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | | | 10/04/18 13:00 | 1 | |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | 10/04/18 13:00 | 1 | |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-11A

Date Collected: 09/27/18 11:45

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-5

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 13:27 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 13:27 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 13:27 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 13:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 13:27 | 1 |
| Acetone | 5.0 | J | 10 | 3.0 | ug/L | | | 10/04/18 13:27 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 13:27 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 13:27 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 13:27 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 13:27 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 13:27 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 13:27 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 13:27 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 13:27 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 13:27 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 13:27 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 13:27 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 13:27 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 13:27 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 13:27 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 13:27 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 13:27 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 13:27 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 13:27 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 13:27 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 13:27 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 13:27 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 13:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 13:27 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 13:27 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 13:27 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 13:27 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 13:27 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 13:27 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-11A
Date Collected: 09/27/18 11:45
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-5
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 | | | 10/04/18 13:27 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 13:27 | 1 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 77 - 120 | | | | Prepared | Analyzed | Dil Fac |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 10/04/18 13:27 | 1 |
| Dibromofluoromethane (Surr) | 106 | | 75 - 123 | | | | | 10/04/18 13:27 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | | 10/04/18 13:27 | 1 |

Client Sample ID: DUP1

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-6

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 | 130 | | 5.0 | 4.1 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | U | 5.0 | 1.6 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,1,2-Trichloroethane | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,1-Dichloroethane | 15 | | 5.0 | 1.9 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,1-Dichloroethene | 11 | | 5.0 | 1.5 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2,3-Trimethylbenzene | 5.0 | U | 5.0 | 1.3 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2-Dibromo-3-Chloropropane | 5.0 | U | 5.0 | 2.0 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2-Dibromoethane | 5.0 | U | 5.0 | 3.7 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2-Dichloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,2-Dichloropropane | 5.0 | U | 5.0 | 3.6 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | | 10/04/18 22:45 | 5 |
| 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 4.2 | ug/L | | | 10/04/18 22:45 | 5 |
| 2-Butanone (MEK) | 50 | U | 50 | 6.6 | ug/L | | | 10/04/18 22:45 | 5 |
| 2-Hexanone | 25 | U | 25 | 6.2 | ug/L | | | 10/04/18 22:45 | 5 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 25 | 11 | ug/L | | | 10/04/18 22:45 | 5 |
| Acetone | 50 | U | 50 | 15 | ug/L | | | 10/04/18 22:45 | 5 |
| Benzene | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 22:45 | 5 |
| Bromodichloromethane | 5.0 | U | 5.0 | 2.0 | ug/L | | | 10/04/18 22:45 | 5 |
| Bromoform | 5.0 | U | 5.0 | 1.3 | ug/L | | | 10/04/18 22:45 | 5 |
| Bromomethane | 5.0 | U | 5.0 | 3.5 | ug/L | | | 10/04/18 22:45 | 5 |
| Carbon disulfide | 5.0 | U | 5.0 | 0.95 | ug/L | | | 10/04/18 22:45 | 5 |
| Carbon tetrachloride | 5.0 | U | 5.0 | 1.4 | ug/L | | | 10/04/18 22:45 | 5 |
| Chlorobenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | | 10/04/18 22:45 | 5 |
| Chloroethane | 5.0 | U | 5.0 | 1.6 | ug/L | | | 10/04/18 22:45 | 5 |
| Chloroform | 5.0 | U | 5.0 | 1.7 | ug/L | | | 10/04/18 22:45 | 5 |
| Chloromethane | 5.0 | U | 5.0 | 1.8 | ug/L | | | 10/04/18 22:45 | 5 |
| cis-1,2-Dichloroethene | 43 | | 5.0 | 4.1 | ug/L | | | 10/04/18 22:45 | 5 |
| cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.8 | ug/L | | | 10/04/18 22:45 | 5 |
| Cyclohexane | 5.0 | U | 5.0 | 0.90 | ug/L | | | 10/04/18 22:45 | 5 |
| Dibromochloromethane | 5.0 | U * | 5.0 | 1.6 | ug/L | | | 10/04/18 22:45 | 5 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: DUP1

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-6

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Dichlorodifluoromethane | 5.0 | U | 5.0 | 3.4 | ug/L | | 10/04/18 22:45 | | 5 |
| Ethylbenzene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 22:45 | | 5 |
| Isopropylbenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | 10/04/18 22:45 | | 5 |
| Methyl acetate | 13 | U | 13 | 6.5 | ug/L | | 10/04/18 22:45 | | 5 |
| Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 22:45 | | 5 |
| Methylcyclohexane | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 22:45 | | 5 |
| Methylene Chloride | 5.0 | U | 5.0 | 2.2 | ug/L | | 10/04/18 22:45 | | 5 |
| Styrene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 22:45 | | 5 |
| Tetrachloroethene | 5.0 | U | 5.0 | 1.8 | ug/L | | 10/04/18 22:45 | | 5 |
| Toluene | 5.0 | U | 5.0 | 2.6 | ug/L | | 10/04/18 22:45 | | 5 |
| trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 4.5 | ug/L | | 10/04/18 22:45 | | 5 |
| trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.9 | ug/L | | 10/04/18 22:45 | | 5 |
| Trichloroethene | 38 | | 5.0 | 2.3 | ug/L | | 10/04/18 22:45 | | 5 |
| Trichlorofluoromethane | 5.0 | U | 5.0 | 4.4 | ug/L | | 10/04/18 22:45 | | 5 |
| Vinyl chloride | 31 | | 5.0 | 4.5 | ug/L | | 10/04/18 22:45 | | 5 |
| Xylenes, Total | 10 | U | 10 | 3.3 | ug/L | | 10/04/18 22:45 | | 5 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | 10/04/18 22:45 | | 5 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 22:45 | | 5 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | 10/04/18 22:45 | | 5 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | | | 10/04/18 22:45 | | 5 |

Client Sample ID: DUP2

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-7

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 | 1000 | | 40 | 33 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,1,2,2-Tetrachloroethane | 40 | U | 40 | 8.4 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 | U | 40 | 12 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,1,2-Trichloroethane | 40 | U | 40 | 9.2 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,1-Dichloroethane | 90 | | 40 | 15 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,1-Dichloroethene | 97 | | 40 | 12 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2,3-Trimethylbenzene | 40 | U | 40 | 10 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2,4-Trichlorobenzene | 40 | U | 40 | 16 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2,4-Trimethylbenzene | 40 | U | 40 | 30 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2-Dibromo-3-Chloropropane | 40 | U | 40 | 16 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2-Dibromoethane | 40 | U | 40 | 29 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2-Dichlorobenzene | 40 | U | 40 | 32 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2-Dichloroethane | 40 | U | 40 | 8.4 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,2-Dichloropropane | 40 | U | 40 | 29 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,3,5-Trimethylbenzene | 40 | U | 40 | 31 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,3-Dichlorobenzene | 40 | U | 40 | 31 | ug/L | | 10/04/18 14:21 | | 40 |
| 1,4-Dichlorobenzene | 40 | U | 40 | 34 | ug/L | | 10/04/18 14:21 | | 40 |
| 2-Butanone (MEK) | 400 | U | 400 | 53 | ug/L | | 10/04/18 14:21 | | 40 |
| 2-Hexanone | 200 | U | 200 | 50 | ug/L | | 10/04/18 14:21 | | 40 |
| 4-Methyl-2-pentanone (MIBK) | 200 | U | 200 | 84 | ug/L | | 10/04/18 14:21 | | 40 |
| Acetone | 400 | U | 400 | 120 | ug/L | | 10/04/18 14:21 | | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: DUP2

Date Collected: 09/27/18 00:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-7

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|-----|---------------|------|---|-----------------|-----------------|----------------|
| Benzene | 40 | U | 40 | 16 | ug/L | | 10/04/18 14:21 | | 40 |
| Bromodichloromethane | 40 | U | 40 | 16 | ug/L | | 10/04/18 14:21 | | 40 |
| Bromoform | 40 | U | 40 | 10 | ug/L | | 10/04/18 14:21 | | 40 |
| Bromomethane | 40 | U | 40 | 28 | ug/L | | 10/04/18 14:21 | | 40 |
| Carbon disulfide | 40 | U | 40 | 7.6 | ug/L | | 10/04/18 14:21 | | 40 |
| Carbon tetrachloride | 40 | U | 40 | 11 | ug/L | | 10/04/18 14:21 | | 40 |
| Chlorobenzene | 40 | U | 40 | 30 | ug/L | | 10/04/18 14:21 | | 40 |
| Chloroethane | 40 | U | 40 | 13 | ug/L | | 10/04/18 14:21 | | 40 |
| Chloroform | 40 | U | 40 | 14 | ug/L | | 10/04/18 14:21 | | 40 |
| Chloromethane | 40 | U | 40 | 14 | ug/L | | 10/04/18 14:21 | | 40 |
| cis-1,2-Dichloroethene | 430 | | 40 | 32 | ug/L | | 10/04/18 14:21 | | 40 |
| cis-1,3-Dichloropropene | 40 | U | 40 | 14 | ug/L | | 10/04/18 14:21 | | 40 |
| Cyclohexane | 40 | U | 40 | 7.2 | ug/L | | 10/04/18 14:21 | | 40 |
| Dibromochloromethane | 40 | U | 40 | 13 | ug/L | | 10/04/18 14:21 | | 40 |
| Dichlorodifluoromethane | 40 | U | 40 | 27 | ug/L | | 10/04/18 14:21 | | 40 |
| Ethylbenzene | 40 | U | 40 | 30 | ug/L | | 10/04/18 14:21 | | 40 |
| Isopropylbenzene | 40 | U | 40 | 32 | ug/L | | 10/04/18 14:21 | | 40 |
| Methyl acetate | 100 | U | 100 | 52 | ug/L | | 10/04/18 14:21 | | 40 |
| Methyl tert-butyl ether | 40 | U | 40 | 6.4 | ug/L | | 10/04/18 14:21 | | 40 |
| Methylcyclohexane | 40 | U | 40 | 6.4 | ug/L | | 10/04/18 14:21 | | 40 |
| Methylene Chloride | 40 | U | 40 | 18 | ug/L | | 10/04/18 14:21 | | 40 |
| Styrene | 40 | U | 40 | 29 | ug/L | | 10/04/18 14:21 | | 40 |
| Tetrachloroethene | 40 | U | 40 | 14 | ug/L | | 10/04/18 14:21 | | 40 |
| Toluene | 40 | U | 40 | 20 | ug/L | | 10/04/18 14:21 | | 40 |
| trans-1,2-Dichloroethene | 40 | U | 40 | 36 | ug/L | | 10/04/18 14:21 | | 40 |
| trans-1,3-Dichloropropene | 40 | U | 40 | 15 | ug/L | | 10/04/18 14:21 | | 40 |
| Trichloroethene | 410 | | 40 | 18 | ug/L | | 10/04/18 14:21 | | 40 |
| Trichlorofluoromethane | 40 | U | 40 | 35 | ug/L | | 10/04/18 14:21 | | 40 |
| Vinyl chloride | 79 | | 40 | 36 | ug/L | | 10/04/18 14:21 | | 40 |
| Xylenes, Total | 80 | U | 80 | 26 | ug/L | | 10/04/18 14:21 | | 40 |
| Surrogate | %Recovery | Qualifier | | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | | 77 - 120 | | | | 10/04/18 14:21 | 40 |
| 4-Bromofluorobenzene (Surr) | 101 | | | 73 - 120 | | | | 10/04/18 14:21 | 40 |
| Dibromofluoromethane (Surr) | 114 | | | 75 - 123 | | | | 10/04/18 14:21 | 40 |
| Toluene-d8 (Surr) | 102 | | | 80 - 120 | | | | 10/04/18 14:21 | 40 |

Client Sample ID: 4009-26

Date Collected: 09/27/18 12:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-8

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 | 350 | | 5.0 | 4.1 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,1,2,2-Tetrachloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | | 5.0 | 1.6 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,1,2-Trichloroethane | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,1-Dichloroethane | 42 | | 5.0 | 1.9 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,1-Dichloroethene | 17 | | 5.0 | 1.5 | ug/L | | 10/04/18 14:47 | | 5 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-26

Date Collected: 09/27/18 12:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-8

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 | 5.0 | U | 5.0 | 1.3 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2,4-Trichlorobenzene | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2,4-Trimethylbenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2-Dibromo-3-Chloropropane | 5.0 | U | 5.0 | 2.0 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2-Dibromoethane | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2-Dichlorobenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2-Dichloroethane | 5.0 | U | 5.0 | 1.1 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,2-Dichloropropane | 5.0 | U | 5.0 | 3.6 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,3,5-Trimethylbenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,3-Dichlorobenzene | 5.0 | U | 5.0 | 3.9 | ug/L | | 10/04/18 14:47 | | 5 |
| 1,4-Dichlorobenzene | 5.0 | U | 5.0 | 4.2 | ug/L | | 10/04/18 14:47 | | 5 |
| 2-Butanone (MEK) | 50 | U | 50 | 6.6 | ug/L | | 10/04/18 14:47 | | 5 |
| 2-Hexanone | 25 | U | 25 | 6.2 | ug/L | | 10/04/18 14:47 | | 5 |
| 4-Methyl-2-pentanone (MIBK) | 25 | U | 25 | 11 | ug/L | | 10/04/18 14:47 | | 5 |
| Acetone | 50 | U | 50 | 15 | ug/L | | 10/04/18 14:47 | | 5 |
| Benzene | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 14:47 | | 5 |
| Bromodichloromethane | 5.0 | U | 5.0 | 2.0 | ug/L | | 10/04/18 14:47 | | 5 |
| Bromoform | 5.0 | U | 5.0 | 1.3 | ug/L | | 10/04/18 14:47 | | 5 |
| Bromomethane | 5.0 | U | 5.0 | 3.5 | ug/L | | 10/04/18 14:47 | | 5 |
| Carbon disulfide | 5.0 | U | 5.0 | 0.95 | ug/L | | 10/04/18 14:47 | | 5 |
| Carbon tetrachloride | 5.0 | U | 5.0 | 1.4 | ug/L | | 10/04/18 14:47 | | 5 |
| Chlorobenzene | 5.0 | U | 5.0 | 3.8 | ug/L | | 10/04/18 14:47 | | 5 |
| Chloroethane | 2.0 | J | 5.0 | 1.6 | ug/L | | 10/04/18 14:47 | | 5 |
| Chloroform | 5.0 | U | 5.0 | 1.7 | ug/L | | 10/04/18 14:47 | | 5 |
| Chloromethane | 5.0 | U | 5.0 | 1.8 | ug/L | | 10/04/18 14:47 | | 5 |
| cis-1,2-Dichloroethene | 170 | | 5.0 | 4.1 | ug/L | | 10/04/18 14:47 | | 5 |
| cis-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.8 | ug/L | | 10/04/18 14:47 | | 5 |
| Cyclohexane | 5.0 | U | 5.0 | 0.90 | ug/L | | 10/04/18 14:47 | | 5 |
| Dibromochloromethane | 5.0 | U | 5.0 | 1.6 | ug/L | | 10/04/18 14:47 | | 5 |
| Dichlorodifluoromethane | 5.0 | U | 5.0 | 3.4 | ug/L | | 10/04/18 14:47 | | 5 |
| Ethylbenzene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 14:47 | | 5 |
| Isopropylbenzene | 5.0 | U | 5.0 | 4.0 | ug/L | | 10/04/18 14:47 | | 5 |
| Methyl acetate | 13 | U | 13 | 6.5 | ug/L | | 10/04/18 14:47 | | 5 |
| Methyl tert-butyl ether | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 14:47 | | 5 |
| Methylcyclohexane | 5.0 | U | 5.0 | 0.80 | ug/L | | 10/04/18 14:47 | | 5 |
| Methylene Chloride | 5.0 | U | 5.0 | 2.2 | ug/L | | 10/04/18 14:47 | | 5 |
| Styrene | 5.0 | U | 5.0 | 3.7 | ug/L | | 10/04/18 14:47 | | 5 |
| Tetrachloroethene | 5.0 | U | 5.0 | 1.8 | ug/L | | 10/04/18 14:47 | | 5 |
| Toluene | 5.0 | U | 5.0 | 2.6 | ug/L | | 10/04/18 14:47 | | 5 |
| trans-1,2-Dichloroethene | 5.0 | U | 5.0 | 4.5 | ug/L | | 10/04/18 14:47 | | 5 |
| trans-1,3-Dichloropropene | 5.0 | U | 5.0 | 1.9 | ug/L | | 10/04/18 14:47 | | 5 |
| Trichloroethene | 140 | | 5.0 | 2.3 | ug/L | | 10/04/18 14:47 | | 5 |
| Trichlorofluoromethane | 5.0 | U | 5.0 | 4.4 | ug/L | | 10/04/18 14:47 | | 5 |
| Vinyl chloride | 13 | | 5.0 | 4.5 | ug/L | | 10/04/18 14:47 | | 5 |
| Xylenes, Total | 10 | U | 10 | 3.3 | ug/L | | 10/04/18 14:47 | | 5 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 | | | 10/04/18 14:47 | | 5 | |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | 10/04/18 14:47 | | 5 | |
| Dibromofluoromethane (Surr) | 114 | | 75 - 123 | | | 10/04/18 14:47 | | 5 | |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-26

Lab Sample ID: 480-142551-8

Date Collected: 09/27/18 12:00

Matrix: Water

Date Received: 09/28/18 01:30

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surrogate) | 104 | | 80 - 120 | | 10/04/18 14:47 | 5 |

Client Sample ID: TRIP BLANK1

Lab Sample ID: 480-142551-9

Date Collected: 09/27/18 00:00

Matrix: Water

Date Received: 09/28/18 01:30

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 | | 10/04/18 15:15 | | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 10/04/18 15:15 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 10/04/18 15:15 | | 1 |
| 2-Butanone (MEK) | 2.5 J | | 10 | 1.3 | ug/L | | 10/04/18 15:15 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/04/18 15:15 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 15:15 | | 1 |
| Acetone | 3.4 J | | 10 | 3.0 | ug/L | | 10/04/18 15:15 | | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/04/18 15:15 | | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 15:15 | | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 15:15 | | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | 10/04/18 15:15 | | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | 10/04/18 15:15 | | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | 10/04/18 15:15 | | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 15:15 | | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 15:15 | | 1 |
| Chloroform | 1.3 | | 1.0 | 0.34 | ug/L | | 10/04/18 15:15 | | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | 10/04/18 15:15 | | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | 10/04/18 15:15 | | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 15:15 | | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | 10/04/18 15:15 | | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 15:15 | | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | 10/04/18 15:15 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 10/04/18 15:15 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 15:15 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 10/04/18 15:15 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 15:15 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 15:15 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: TRIP BLANK1

Date Collected: 09/27/18 00:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-9

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 | | | 10/04/18 15:15 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 15:15 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 15:15 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 15:15 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 15:15 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 15:15 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 15:15 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 15:15 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 15:15 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 15:15 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | | 77 - 120 | | | | 10/04/18 15:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | | 73 - 120 | | | | 10/04/18 15:15 | 1 |
| Dibromofluoromethane (Surr) | 108 | | | 75 - 123 | | | | 10/04/18 15:15 | 1 |
| Toluene-d8 (Surr) | 105 | | | 80 - 120 | | | | 10/04/18 15:15 | 1 |

Client Sample ID: TRIP BLANK 2

Date Collected: 09/27/18 00:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-10

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 | | | 10/04/18 15:42 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 15:42 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 15:42 | 1 |
| 2-Butanone (MEK) | 2.4 | J | 10 | 1.3 | ug/L | | | 10/04/18 15:42 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 15:42 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 15:42 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/04/18 15:42 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 15:42 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 15:42 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 15:42 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 15:42 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 15:42 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 15:42 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: TRIP BLANK 2

Date Collected: 09/27/18 00:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-10

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|----------|-----------------|-----------------|----------------|
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 15:42 | | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 15:42 | | 1 |
| Chloroform | 1.2 | | 1.0 | 0.34 | ug/L | | 10/04/18 15:42 | | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | 10/04/18 15:42 | | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | 10/04/18 15:42 | | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 15:42 | | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | 10/04/18 15:42 | | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 15:42 | | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | 10/04/18 15:42 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 10/04/18 15:42 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 15:42 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 10/04/18 15:42 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 15:42 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 15:42 | | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | 10/04/18 15:42 | | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 15:42 | | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 15:42 | | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | 10/04/18 15:42 | | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/04/18 15:42 | | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | 10/04/18 15:42 | | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | 10/04/18 15:42 | | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | 10/04/18 15:42 | | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/04/18 15:42 | | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | 10/04/18 15:42 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | D | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 77 - 120 | | | | 10/04/18 15:42 | | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | 10/04/18 15:42 | | 1 |
| Dibromofluoromethane (Surr) | 107 | | 75 - 123 | | | | 10/04/18 15:42 | | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | | | 10/04/18 15:42 | | 1 |

Client Sample ID: 4009-7

Date Collected: 09/27/18 12:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-11

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 | | 10/04/18 16:09 | | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,1-Dichloroethane | 0.62 J | | 1.0 | 0.38 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,1-Dichloroethene | 0.53 J | | 1.0 | 0.29 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 16:09 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-7

Date Collected: 09/27/18 12:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-11

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 10/04/18 16:09 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 10/04/18 16:09 | | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | 10/04/18 16:09 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/04/18 16:09 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 16:09 | | 1 |
| Acetone | 4.0 | J | 10 | 3.0 | ug/L | | 10/04/18 16:09 | | 1 |
| Benzene | 0.45 | J | 1.0 | 0.41 | ug/L | | 10/04/18 16:09 | | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 16:09 | | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 16:09 | | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | 10/04/18 16:09 | | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | 10/04/18 16:09 | | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | 10/04/18 16:09 | | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 16:09 | | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 16:09 | | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | 10/04/18 16:09 | | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | 10/04/18 16:09 | | 1 |
| cis-1,2-Dichloroethene | 55 | | 1.0 | 0.81 | ug/L | | 10/04/18 16:09 | | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 16:09 | | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | 10/04/18 16:09 | | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/04/18 16:09 | | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | 10/04/18 16:09 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 10/04/18 16:09 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 16:09 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 10/04/18 16:09 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 16:09 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 16:09 | | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | 10/04/18 16:09 | | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 16:09 | | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 16:09 | | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | 10/04/18 16:09 | | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/04/18 16:09 | | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | 10/04/18 16:09 | | 1 |
| Trichloroethene | 0.97 | J | 1.0 | 0.46 | ug/L | | 10/04/18 16:09 | | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | 10/04/18 16:09 | | 1 |
| Vinyl chloride | 7.5 | | 1.0 | 0.90 | ug/L | | 10/04/18 16:09 | | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | 10/04/18 16:09 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 77 - 120 | | | | 10/04/18 16:09 | | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 16:09 | | 1 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | 10/04/18 16:09 | | 1 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | | | 10/04/18 16:09 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-8

Date Collected: 09/27/18 12:05

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-12

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 | 3700 | | 40 | 33 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,1,2,2-Tetrachloroethane | 40 | U | 40 | 8.4 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 | U | 40 | 12 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,1,2-Trichloroethane | 40 | U | 40 | 9.2 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,1-Dichloroethane | 150 | | 40 | 15 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,1-Dichloroethene | 160 | | 40 | 12 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2,3-Trimethylbenzene | 40 | U | 40 | 10 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2,4-Trichlorobenzene | 40 | U | 40 | 16 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2,4-Trimethylbenzene | 40 | U | 40 | 30 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2-Dibromo-3-Chloropropane | 40 | U | 40 | 16 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2-Dibromoethane | 40 | U | 40 | 29 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2-Dichlorobenzene | 40 | U | 40 | 32 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2-Dichloroethane | 40 | U | 40 | 8.4 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,2-Dichloropropane | 40 | U | 40 | 29 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,3,5-Trimethylbenzene | 40 | U | 40 | 31 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,3-Dichlorobenzene | 40 | U | 40 | 31 | ug/L | | | 10/04/18 16:36 | 40 |
| 1,4-Dichlorobenzene | 40 | U | 40 | 34 | ug/L | | | 10/04/18 16:36 | 40 |
| 2-Butanone (MEK) | 400 | U | 400 | 53 | ug/L | | | 10/04/18 16:36 | 40 |
| 2-Hexanone | 200 | U | 200 | 50 | ug/L | | | 10/04/18 16:36 | 40 |
| 4-Methyl-2-pentanone (MIBK) | 200 | U | 200 | 84 | ug/L | | | 10/04/18 16:36 | 40 |
| Acetone | 400 | U | 400 | 120 | ug/L | | | 10/04/18 16:36 | 40 |
| Benzene | 40 | U | 40 | 16 | ug/L | | | 10/04/18 16:36 | 40 |
| Bromodichloromethane | 40 | U | 40 | 16 | ug/L | | | 10/04/18 16:36 | 40 |
| Bromoform | 40 | U | 40 | 10 | ug/L | | | 10/04/18 16:36 | 40 |
| Bromomethane | 40 | U | 40 | 28 | ug/L | | | 10/04/18 16:36 | 40 |
| Carbon disulfide | 40 | U | 40 | 7.6 | ug/L | | | 10/04/18 16:36 | 40 |
| Carbon tetrachloride | 40 | U | 40 | 11 | ug/L | | | 10/04/18 16:36 | 40 |
| Chlorobenzene | 40 | U | 40 | 30 | ug/L | | | 10/04/18 16:36 | 40 |
| Chloroethane | 40 | U | 40 | 13 | ug/L | | | 10/04/18 16:36 | 40 |
| Chloroform | 40 | U | 40 | 14 | ug/L | | | 10/04/18 16:36 | 40 |
| Chloromethane | 40 | U | 40 | 14 | ug/L | | | 10/04/18 16:36 | 40 |
| cis-1,2-Dichloroethene | 910 | | 40 | 32 | ug/L | | | 10/04/18 16:36 | 40 |
| cis-1,3-Dichloropropene | 40 | U | 40 | 14 | ug/L | | | 10/04/18 16:36 | 40 |
| Cyclohexane | 40 | U | 40 | 7.2 | ug/L | | | 10/04/18 16:36 | 40 |
| Dibromochloromethane | 40 | U | 40 | 13 | ug/L | | | 10/04/18 16:36 | 40 |
| Dichlorodifluoromethane | 40 | U | 40 | 27 | ug/L | | | 10/04/18 16:36 | 40 |
| Ethylbenzene | 40 | U | 40 | 30 | ug/L | | | 10/04/18 16:36 | 40 |
| Isopropylbenzene | 40 | U | 40 | 32 | ug/L | | | 10/04/18 16:36 | 40 |
| Methyl acetate | 100 | U | 100 | 52 | ug/L | | | 10/04/18 16:36 | 40 |
| Methyl tert-butyl ether | 40 | U | 40 | 6.4 | ug/L | | | 10/04/18 16:36 | 40 |
| Methylcyclohexane | 40 | U | 40 | 6.4 | ug/L | | | 10/04/18 16:36 | 40 |
| Methylene Chloride | 40 | U | 40 | 18 | ug/L | | | 10/04/18 16:36 | 40 |
| Styrene | 40 | U | 40 | 29 | ug/L | | | 10/04/18 16:36 | 40 |
| Tetrachloroethene | 40 | U | 40 | 14 | ug/L | | | 10/04/18 16:36 | 40 |
| Toluene | 40 | U | 40 | 20 | ug/L | | | 10/04/18 16:36 | 40 |
| trans-1,2-Dichloroethene | 40 | U | 40 | 36 | ug/L | | | 10/04/18 16:36 | 40 |
| trans-1,3-Dichloropropene | 40 | U | 40 | 15 | ug/L | | | 10/04/18 16:36 | 40 |
| Trichloroethene | 580 | | 40 | 18 | ug/L | | | 10/04/18 16:36 | 40 |
| Trichlorofluoromethane | 40 | U | 40 | 35 | ug/L | | | 10/04/18 16:36 | 40 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-8
Date Collected: 09/27/18 12:05
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-12
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|----------|-----|------|---|----------|----------------|---------|
| Vinyl chloride | 40 | U | 40 | 36 | ug/L | | | 10/04/18 16:36 | 40 |
| Xylenes, Total | 80 | U | 80 | 26 | ug/L | | | 10/04/18 16:36 | 40 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 77 - 120 | | | | Prepared | 10/04/18 16:36 | 40 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | | 10/04/18 16:36 | 40 |
| Dibromofluoromethane (Surr) | 112 | | 75 - 123 | | | | | 10/04/18 16:36 | 40 |
| Toluene-d8 (Surr) | 106 | | 80 - 120 | | | | | 10/04/18 16:36 | 40 |

Client Sample ID: WELL 1-1

Date Collected: 09/27/18 08:25
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-13

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 | 220 | | 4.0 | 3.3 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,1,2,2-Tetrachloroethane | 4.0 | U | 4.0 | 0.84 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 4.0 | U | 4.0 | 1.2 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,1,2-Trichloroethane | 4.0 | U | 4.0 | 0.92 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,1-Dichloroethane | 20 | | 4.0 | 1.5 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,1-Dichloroethene | 18 | | 4.0 | 1.2 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2,3-Trimethylbenzene | 4.0 | U | 4.0 | 1.0 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2,4-Trichlorobenzene | 4.0 | U | 4.0 | 1.6 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2,4-Trimethylbenzene | 4.0 | U | 4.0 | 3.0 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2-Dibromo-3-Chloropropane | 4.0 | U | 4.0 | 1.6 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2-Dibromoethane | 4.0 | U | 4.0 | 2.9 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2-Dichlorobenzene | 4.0 | U | 4.0 | 3.2 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2-Dichloroethane | 4.0 | U | 4.0 | 0.84 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,2-Dichloropropane | 4.0 | U | 4.0 | 2.9 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,3,5-Trimethylbenzene | 4.0 | U | 4.0 | 3.1 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,3-Dichlorobenzene | 4.0 | U | 4.0 | 3.1 | ug/L | | | 10/04/18 17:03 | 4 |
| 1,4-Dichlorobenzene | 4.0 | U | 4.0 | 3.4 | ug/L | | | 10/04/18 17:03 | 4 |
| 2-Butanone (MEK) | 40 | U | 40 | 5.3 | ug/L | | | 10/04/18 17:03 | 4 |
| 2-Hexanone | 20 | U | 20 | 5.0 | ug/L | | | 10/04/18 17:03 | 4 |
| 4-Methyl-2-pentanone (MIBK) | 20 | U | 20 | 8.4 | ug/L | | | 10/04/18 17:03 | 4 |
| Acetone | 40 | U | 40 | 12 | ug/L | | | 10/04/18 17:03 | 4 |
| Benzene | 4.0 | U | 4.0 | 1.6 | ug/L | | | 10/04/18 17:03 | 4 |
| Bromodichloromethane | 4.0 | U | 4.0 | 1.6 | ug/L | | | 10/04/18 17:03 | 4 |
| Bromoform | 4.0 | U | 4.0 | 1.0 | ug/L | | | 10/04/18 17:03 | 4 |
| Bromomethane | 4.0 | U | 4.0 | 2.8 | ug/L | | | 10/04/18 17:03 | 4 |
| Carbon disulfide | 4.0 | U | 4.0 | 0.76 | ug/L | | | 10/04/18 17:03 | 4 |
| Carbon tetrachloride | 4.0 | U | 4.0 | 1.1 | ug/L | | | 10/04/18 17:03 | 4 |
| Chlorobenzene | 4.0 | U | 4.0 | 3.0 | ug/L | | | 10/04/18 17:03 | 4 |
| Chloroethane | 4.0 | U | 4.0 | 1.3 | ug/L | | | 10/04/18 17:03 | 4 |
| Chloroform | 4.0 | U | 4.0 | 1.4 | ug/L | | | 10/04/18 17:03 | 4 |
| Chloromethane | 4.0 | U | 4.0 | 1.4 | ug/L | | | 10/04/18 17:03 | 4 |
| cis-1,2-Dichloroethene | 68 | | 4.0 | 3.2 | ug/L | | | 10/04/18 17:03 | 4 |
| cis-1,3-Dichloropropene | 4.0 | U | 4.0 | 1.4 | ug/L | | | 10/04/18 17:03 | 4 |
| Cyclohexane | 4.0 | U | 4.0 | 0.72 | ug/L | | | 10/04/18 17:03 | 4 |
| Dibromochloromethane | 4.0 | U | 4.0 | 1.3 | ug/L | | | 10/04/18 17:03 | 4 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: WELL 1-1
Date Collected: 09/27/18 08:25
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-13
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Dichlorodifluoromethane | 4.0 | U | 4.0 | 2.7 | ug/L | | | 10/04/18 17:03 | 4 |
| Ethylbenzene | 4.0 | U | 4.0 | 3.0 | ug/L | | | 10/04/18 17:03 | 4 |
| Isopropylbenzene | 4.0 | U | 4.0 | 3.2 | ug/L | | | 10/04/18 17:03 | 4 |
| Methyl acetate | 10 | U | 10 | 5.2 | ug/L | | | 10/04/18 17:03 | 4 |
| Methyl tert-butyl ether | 4.0 | U | 4.0 | 0.64 | ug/L | | | 10/04/18 17:03 | 4 |
| Methylcyclohexane | 4.0 | U | 4.0 | 0.64 | ug/L | | | 10/04/18 17:03 | 4 |
| Methylene Chloride | 1.8 | J | 4.0 | 1.8 | ug/L | | | 10/04/18 17:03 | 4 |
| Styrene | 4.0 | U | 4.0 | 2.9 | ug/L | | | 10/04/18 17:03 | 4 |
| Tetrachloroethene | 4.0 | U | 4.0 | 1.4 | ug/L | | | 10/04/18 17:03 | 4 |
| Toluene | 4.0 | U | 4.0 | 2.0 | ug/L | | | 10/04/18 17:03 | 4 |
| trans-1,2-Dichloroethene | 4.0 | U | 4.0 | 3.6 | ug/L | | | 10/04/18 17:03 | 4 |
| trans-1,3-Dichloropropene | 4.0 | U | 4.0 | 1.5 | ug/L | | | 10/04/18 17:03 | 4 |
| Trichloroethene | 67 | | 4.0 | 1.8 | ug/L | | | 10/04/18 17:03 | 4 |
| Trichlorofluoromethane | 4.0 | U | 4.0 | 3.5 | ug/L | | | 10/04/18 17:03 | 4 |
| Vinyl chloride | 4.0 | U | 4.0 | 3.6 | ug/L | | | 10/04/18 17:03 | 4 |
| Xylenes, Total | 8.0 | U | 8.0 | 2.6 | ug/L | | | 10/04/18 17:03 | 4 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 77 - 120 | | | | | 10/04/18 17:03 | 4 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 10/04/18 17:03 | 4 |
| Dibromofluoromethane (Surr) | 115 | | 75 - 123 | | | | | 10/04/18 17:03 | 4 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | | | | 10/04/18 17:03 | 4 |

Client Sample ID: 4009-9

Date Collected: 09/27/18 11:35
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-14

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 17:30 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 17:30 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 17:30 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 17:30 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 17:30 | 1 |
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | | | 10/04/18 17:30 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-9

Date Collected: 09/27/18 11:35

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-14

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 | | | 10/04/18 17:30 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 17:30 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 17:30 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 17:30 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 17:30 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 17:30 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 17:30 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 17:30 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 17:30 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 17:30 | 1 |
| cis-1,2-Dichloroethene | 13 | | 1.0 | 0.81 | ug/L | | | 10/04/18 17:30 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 17:30 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 17:30 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 17:30 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 17:30 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 17:30 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 17:30 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 17:30 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 17:30 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 17:30 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 17:30 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 17:30 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 17:30 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 17:30 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 17:30 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 17:30 | 1 |
| Trichloroethene | 0.73 | J | 1.0 | 0.46 | ug/L | | | 10/04/18 17:30 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 17:30 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 17:30 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 17:30 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 77 - 120 | | | | | 10/04/18 17:30 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 10/04/18 17:30 | 1 |
| Dibromofluoromethane (Surr) | 113 | | 75 - 123 | | | | | 10/04/18 17:30 | 1 |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | | | | 10/04/18 17:30 | 1 |

Client Sample ID: 4009-10

Date Collected: 09/27/18 11:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-15

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 17:56 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-10

Date Collected: 09/27/18 11:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-15

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 17:56 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 17:56 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 17:56 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 17:56 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 17:56 | 1 |
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | | | 10/04/18 17:56 | 1 |
| Benzene | 0.51 | J | 1.0 | 0.41 | ug/L | | | 10/04/18 17:56 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 17:56 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 17:56 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 17:56 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 17:56 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 17:56 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 17:56 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 17:56 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 17:56 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 17:56 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 17:56 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 17:56 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 17:56 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 17:56 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 17:56 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 17:56 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 17:56 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 17:56 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 17:56 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 17:56 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 17:56 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 17:56 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 17:56 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 17:56 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 17:56 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 17:56 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 17:56 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 17:56 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 17:56 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 17:56 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 77 - 120 | | | | 10/04/18 17:56 | 1 | |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 17:56 | 1 | |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | 10/04/18 17:56 | 1 | |
| Toluene-d8 (Surr) | 106 | | 80 - 120 | | | | 10/04/18 17:56 | 1 | |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-11

Date Collected: 09/27/18 11:50

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-16

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|---------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,1-Dichloroethane | 7.0 | | 1.0 | 0.38 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 18:24 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 18:24 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 18:24 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 18:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 18:24 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/04/18 18:24 | 1 |
| Benzene | 8.9 | | 1.0 | 0.41 | ug/L | | | 10/04/18 18:24 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 18:24 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 18:24 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 18:24 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 18:24 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 18:24 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 18:24 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 18:24 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 18:24 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 18:24 | 1 |
| cis-1,2-Dichloroethene | 1.3 | | 1.0 | 0.81 | ug/L | | | 10/04/18 18:24 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 18:24 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 18:24 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 18:24 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 18:24 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 18:24 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 18:24 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 18:24 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 18:24 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 18:24 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 18:24 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 18:24 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 18:24 | 1 |
| Toluene | 0.52 J | | 1.0 | 0.51 | ug/L | | | 10/04/18 18:24 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 18:24 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 18:24 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 18:24 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 18:24 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-11

Date Collected: 09/27/18 11:50

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-16

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|--------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | 1.7 | | 1.0 | 0.90 | ug/L | | | 10/04/18 18:24 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 18:24 | 1 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 77 - 120 | | | | Prepared | 10/04/18 18:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 | | | | | 10/04/18 18:24 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | | | | 10/04/18 18:24 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | | 10/04/18 18:24 | 1 |

Client Sample ID: 4009-12

Date Collected: 09/27/18 10:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-17

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 | 95 | | 1.0 | 0.82 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,1-Dichloroethane | 11 | | 1.0 | 0.38 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,1-Dichloroethene | 6.9 | | 1.0 | 0.29 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 23:13 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 23:13 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 23:13 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 23:13 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 23:13 | 1 |
| Acetone | 4.4 J | | 10 | 3.0 | ug/L | | | 10/04/18 23:13 | 1 |
| Benzene | 0.73 J | | 1.0 | 0.41 | ug/L | | | 10/04/18 23:13 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 23:13 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 23:13 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 23:13 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 23:13 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 23:13 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 23:13 | 1 |
| Chloroethane | 0.68 J | | 1.0 | 0.32 | ug/L | | | 10/04/18 23:13 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 23:13 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 23:13 | 1 |
| cis-1,2-Dichloroethene | 25 | | 1.0 | 0.81 | ug/L | | | 10/04/18 23:13 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 23:13 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 23:13 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/04/18 23:13 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-12

Date Collected: 09/27/18 10:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-17

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 | | 10/04/18 23:13 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 10/04/18 23:13 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 23:13 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 10/04/18 23:13 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 23:13 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/04/18 23:13 | | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | 10/04/18 23:13 | | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 23:13 | | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/04/18 23:13 | | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | 10/04/18 23:13 | | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/04/18 23:13 | | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | 10/04/18 23:13 | | 1 |
| Trichloroethene | 25 | | 1.0 | 0.46 | ug/L | | 10/04/18 23:13 | | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | 10/04/18 23:13 | | 1 |
| Vinyl chloride | 26 | | 1.0 | 0.90 | ug/L | | 10/04/18 23:13 | | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | 10/04/18 23:13 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | | | 10/04/18 23:13 | | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 23:13 | | 1 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | 10/04/18 23:13 | | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | | | 10/04/18 23:13 | | 1 |

Client Sample ID: 4009-13

Date Collected: 09/27/18 10:55

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-18

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 | | 10/04/18 23:39 | | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 10/04/18 23:39 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 10/04/18 23:39 | | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | 10/04/18 23:39 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/04/18 23:39 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/04/18 23:39 | | 1 |
| Acetone | 3.0 | J | 10 | 3.0 | ug/L | | 10/04/18 23:39 | | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-13

Date Collected: 09/27/18 10:55

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-18

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Benzene | 0.44 | J | 1.0 | 0.41 | ug/L | | | 10/04/18 23:39 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 23:39 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 23:39 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 23:39 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 23:39 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 23:39 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 23:39 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 23:39 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 23:39 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 23:39 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 23:39 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 23:39 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 23:39 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/04/18 23:39 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 23:39 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 23:39 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 23:39 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 23:39 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 23:39 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 23:39 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 23:39 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 23:39 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 23:39 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 23:39 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 23:39 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 23:39 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 23:39 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 23:39 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 23:39 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 23:39 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 77 - 120 | | | | 10/04/18 23:39 | 1 | |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | 10/04/18 23:39 | 1 | |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | 10/04/18 23:39 | 1 | |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | | 10/04/18 23:39 | 1 | |

Client Sample ID: 4009-13A

Date Collected: 09/27/18 11:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-19

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 | | | 10/05/18 00:07 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 00:07 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-13A

Date Collected: 09/27/18 11:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-19

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 00:07 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 00:07 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 00:07 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 00:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 00:07 | 1 |
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | | | 10/05/18 00:07 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 00:07 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 00:07 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 00:07 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 00:07 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 00:07 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 00:07 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 00:07 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 00:07 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 00:07 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 00:07 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 00:07 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 00:07 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 00:07 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 00:07 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 00:07 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 00:07 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 00:07 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 00:07 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 00:07 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 00:07 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 00:07 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 00:07 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 00:07 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 00:07 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 00:07 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 00:07 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 00:07 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 00:07 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 00:07 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 00:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | | | 10/05/18 00:07 | 1 | |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | 10/05/18 00:07 | 1 | |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | | | 10/05/18 00:07 | 1 | |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | | 10/05/18 00:07 | 1 | |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-14

Date Collected: 09/27/18 08:50

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-20

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 | | | 10/05/18 00:34 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 00:34 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 00:34 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 00:34 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 00:34 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 00:34 | 1 |
| Acetone | 3.8 | J | 10 | 3.0 | ug/L | | | 10/05/18 00:34 | 1 |
| Benzene | 1.6 | | 1.0 | 0.41 | ug/L | | | 10/05/18 00:34 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 00:34 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 00:34 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 00:34 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 00:34 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 00:34 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 00:34 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 00:34 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 00:34 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 00:34 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 00:34 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 00:34 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 00:34 | 1 |
| Dibromochloromethane | 1.0 | U* | 1.0 | 0.32 | ug/L | | | 10/05/18 00:34 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 00:34 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 00:34 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 00:34 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 00:34 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 00:34 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 00:34 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 00:34 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 00:34 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 00:34 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 00:34 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 00:34 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 00:34 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 00:34 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 00:34 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-14
Date Collected: 09/27/18 08:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-20
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 | | | 10/05/18 00:34 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 00:34 | 1 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 77 - 120 | | | | Prepared | 10/05/18 00:34 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 10/05/18 00:34 | 1 |
| Dibromofluoromethane (Surr) | 112 | | 75 - 123 | | | | | 10/05/18 00:34 | 1 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 | | | | | 10/05/18 00:34 | 1 |

Client Sample ID: 4009-15
Date Collected: 09/27/18 09:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-21
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 | | | 10/05/18 01:00 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 01:00 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 01:00 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 01:00 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 01:00 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 01:00 | 1 |
| Acetone | 7.3 | J | 10 | 3.0 | ug/L | | | 10/05/18 01:00 | 1 |
| Benzene | 7.3 | | 1.0 | 0.41 | ug/L | | | 10/05/18 01:00 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:00 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:00 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 01:00 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 01:00 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 01:00 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:00 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 01:00 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 01:00 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 01:00 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 01:00 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:00 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 01:00 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 01:00 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-15

Date Collected: 09/27/18 09:50

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-21

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 | | | 10/05/18 01:00 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 01:00 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:00 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 01:00 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:00 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:00 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 01:00 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:00 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:00 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 01:00 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:00 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 01:00 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 01:00 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 01:00 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:00 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 01:00 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | | 77 - 120 | | | | 10/05/18 01:00 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | | 73 - 120 | | | | 10/05/18 01:00 | 1 |
| Dibromofluoromethane (Surr) | 109 | | | 75 - 123 | | | | 10/05/18 01:00 | 1 |
| Toluene-d8 (Surr) | 101 | | | 80 - 120 | | | | 10/05/18 01:00 | 1 |

Client Sample ID: 4009-16

Date Collected: 09/27/18 09:25

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-22

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 | | | 10/05/18 01:27 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 01:27 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 01:27 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 01:27 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 01:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 01:27 | 1 |
| Acetone | 3.1 | J | 10 | 3.0 | ug/L | | | 10/05/18 01:27 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-16

Date Collected: 09/27/18 09:25

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-22

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | | | 10/05/18 01:27 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:27 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:27 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 01:27 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 01:27 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 01:27 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:27 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 01:27 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 01:27 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 01:27 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 01:27 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:27 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 01:27 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 01:27 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 01:27 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 01:27 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:27 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 01:27 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:27 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:27 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 01:27 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:27 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:27 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 01:27 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:27 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 01:27 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 01:27 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 01:27 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:27 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 01:27 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 77 - 120 | | | | | 10/05/18 01:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | | 10/05/18 01:27 | 1 |
| Dibromofluoromethane (Surr) | 107 | | 75 - 123 | | | | | 10/05/18 01:27 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | | | | 10/05/18 01:27 | 1 |

Client Sample ID: 4009-16A

Date Collected: 09/27/18 09:30

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-23

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 | | | 10/05/18 01:54 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:54 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-16A

Date Collected: 09/27/18 09:30

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-23

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 01:54 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 01:54 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 01:54 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 01:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 01:54 | 1 |
| Acetone | 3.3 | J | 10 | 3.0 | ug/L | | | 10/05/18 01:54 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 01:54 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 01:54 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 01:54 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 01:54 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 01:54 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 01:54 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 01:54 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 01:54 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 01:54 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 01:54 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 01:54 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:54 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 01:54 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 01:54 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 01:54 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 01:54 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 01:54 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 01:54 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:54 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 01:54 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 01:54 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 01:54 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 01:54 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 01:54 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:54 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 01:54 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 01:54 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 01:54 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 01:54 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 01:54 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 77 - 120 | | | | 10/05/18 01:54 | 1 | |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | 10/05/18 01:54 | 1 | |
| Dibromofluoromethane (Surr) | 107 | | 75 - 123 | | | | 10/05/18 01:54 | 1 | |
| Toluene-d8 (Surr) | 100 | | 80 - 120 | | | | 10/05/18 01:54 | 1 | |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-18

Date Collected: 09/27/18 09:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-24

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 02:21 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 02:21 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 02:21 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 02:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 02:21 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/05/18 02:21 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 02:21 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 02:21 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 02:21 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 02:21 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 02:21 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 02:21 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 02:21 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 02:21 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 02:21 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 02:21 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 02:21 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 02:21 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 02:21 | 1 |
| Dibromochloromethane | 1.0 | U* | 1.0 | 0.32 | ug/L | | | 10/05/18 02:21 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 02:21 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 02:21 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 02:21 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 02:21 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 02:21 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 02:21 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 02:21 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 02:21 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 02:21 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 02:21 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 02:21 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 02:21 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 02:21 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 02:21 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-18

Date Collected: 09/27/18 09:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-24

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 | | | 10/05/18 02:21 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 02:21 | 1 |
| Surrogate | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | | 77 - 120 | | | | Prepared | 10/05/18 02:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 10/05/18 02:21 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | | | | 10/05/18 02:21 | 1 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | | 10/05/18 02:21 | 1 |

Client Sample ID: 4009-19

Date Collected: 09/27/18 09:15

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-25

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 02:48 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 02:48 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 02:48 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 02:48 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 02:48 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/05/18 02:48 | 1 |
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | | | 10/05/18 02:48 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 02:48 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 02:48 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 02:48 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 02:48 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 02:48 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 02:48 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 02:48 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 02:48 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 02:48 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 02:48 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 02:48 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 02:48 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 02:48 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-19

Date Collected: 09/27/18 09:15

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-25

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 | | | 10/05/18 02:48 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 02:48 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 02:48 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 02:48 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 02:48 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 02:48 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 02:48 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 02:48 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 02:48 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 02:48 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 02:48 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 02:48 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 02:48 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 02:48 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 02:48 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 02:48 | 1 |
| Surrogate | | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | | 77 - 120 | | | | 10/05/18 02:48 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | | 73 - 120 | | | | 10/05/18 02:48 | 1 |
| Dibromofluoromethane (Surr) | 105 | | | 75 - 123 | | | | 10/05/18 02:48 | 1 |
| Toluene-d8 (Surr) | 101 | | | 80 - 120 | | | | 10/05/18 02:48 | 1 |

Client Sample ID: 4009-21

Date Collected: 09/27/18 09:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-26

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 | | | 10/05/18 03:15 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 03:15 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 03:15 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 03:15 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 03:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 03:15 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/05/18 03:15 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-21

Date Collected: 09/27/18 09:10

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-26

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Benzene | 5.3 | | 1.0 | 0.41 | ug/L | | | 10/05/18 03:15 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 03:15 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 03:15 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 03:15 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 03:15 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 03:15 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 03:15 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 03:15 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 03:15 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 03:15 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 03:15 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 03:15 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 03:15 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 03:15 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 03:15 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 03:15 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 03:15 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 03:15 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 03:15 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 03:15 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 03:15 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 03:15 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 03:15 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 03:15 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 03:15 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 03:15 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 03:15 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 03:15 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 03:15 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 03:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | | 10/05/18 03:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 10/05/18 03:15 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 75 - 123 | | | | | 10/05/18 03:15 | 1 |
| Toluene-d8 (Surr) | 102 | | 80 - 120 | | | | | 10/05/18 03:15 | 1 |

Client Sample ID: 4009-22

Date Collected: 09/27/18 08:45

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-27

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 | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 03:42 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-22

Date Collected: 09/27/18 08:45

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-27

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 03:42 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 03:42 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 03:42 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 03:42 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 03:42 | 1 |
| Acetone | 3.4 | J | 10 | 3.0 | ug/L | | | 10/05/18 03:42 | 1 |
| Benzene | 1.2 | | 1.0 | 0.41 | ug/L | | | 10/05/18 03:42 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 03:42 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 03:42 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 03:42 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 03:42 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 03:42 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 03:42 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 03:42 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 03:42 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 03:42 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 03:42 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 03:42 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 03:42 | 1 |
| Dibromochloromethane | 1.0 | U* | 1.0 | 0.32 | ug/L | | | 10/05/18 03:42 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 03:42 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 03:42 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 03:42 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 03:42 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 03:42 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 03:42 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 03:42 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 03:42 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 03:42 | 1 |
| Toluene | 0.65 | J | 1.0 | 0.51 | ug/L | | | 10/05/18 03:42 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 03:42 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 03:42 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 03:42 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 03:42 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 03:42 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 03:42 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 | | | | 10/05/18 03:42 | 1 | |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | | | 10/05/18 03:42 | 1 | |
| Dibromofluoromethane (Surr) | 110 | | 75 - 123 | | | | 10/05/18 03:42 | 1 | |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | | | 10/05/18 03:42 | 1 | |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-27S

Date Collected: 09/27/18 10:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-28

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 | 47 | | 2.0 | 1.6 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,1,2,2-Tetrachloroethane | 2.0 | U | 2.0 | 0.42 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.5 | J | 2.0 | 0.62 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,1,2-Trichloroethane | 2.0 | U | 2.0 | 0.46 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,1-Dichloroethane | 2.2 | | 2.0 | 0.76 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,1-Dichloroethene | 4.5 | | 2.0 | 0.58 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2,3-Trimethylbenzene | 2.0 | U | 2.0 | 0.52 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2,4-Trichlorobenzene | 2.0 | U | 2.0 | 0.82 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2,4-Trimethylbenzene | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2-Dibromo-3-Chloropropane | 2.0 | U | 2.0 | 0.78 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2-Dibromoethane | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2-Dichlorobenzene | 2.0 | U | 2.0 | 1.6 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2-Dichloroethane | 2.0 | U | 2.0 | 0.42 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,2-Dichloropropane | 2.0 | U | 2.0 | 1.4 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,3,5-Trimethylbenzene | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,3-Dichlorobenzene | 2.0 | U | 2.0 | 1.6 | ug/L | | | 10/05/18 04:09 | 2 |
| 1,4-Dichlorobenzene | 2.0 | U | 2.0 | 1.7 | ug/L | | | 10/05/18 04:09 | 2 |
| 2-Butanone (MEK) | 20 | U | 20 | 2.6 | ug/L | | | 10/05/18 04:09 | 2 |
| 2-Hexanone | 10 | U | 10 | 2.5 | ug/L | | | 10/05/18 04:09 | 2 |
| 4-Methyl-2-pentanone (MIBK) | 10 | U | 10 | 4.2 | ug/L | | | 10/05/18 04:09 | 2 |
| Acetone | 20 | U | 20 | 6.0 | ug/L | | | 10/05/18 04:09 | 2 |
| Benzene | 2.0 | U | 2.0 | 0.82 | ug/L | | | 10/05/18 04:09 | 2 |
| Bromodichloromethane | 2.0 | U | 2.0 | 0.78 | ug/L | | | 10/05/18 04:09 | 2 |
| Bromoform | 2.0 | U | 2.0 | 0.52 | ug/L | | | 10/05/18 04:09 | 2 |
| Bromomethane | 2.0 | U | 2.0 | 1.4 | ug/L | | | 10/05/18 04:09 | 2 |
| Carbon disulfide | 2.0 | U | 2.0 | 0.38 | ug/L | | | 10/05/18 04:09 | 2 |
| Carbon tetrachloride | 2.0 | U | 2.0 | 0.54 | ug/L | | | 10/05/18 04:09 | 2 |
| Chlorobenzene | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| Chloroethane | 2.0 | U | 2.0 | 0.64 | ug/L | | | 10/05/18 04:09 | 2 |
| Chloroform | 2.0 | U | 2.0 | 0.68 | ug/L | | | 10/05/18 04:09 | 2 |
| Chloromethane | 2.0 | U | 2.0 | 0.70 | ug/L | | | 10/05/18 04:09 | 2 |
| cis-1,2-Dichloroethene | 21 | | 2.0 | 1.6 | ug/L | | | 10/05/18 04:09 | 2 |
| cis-1,3-Dichloropropene | 2.0 | U | 2.0 | 0.72 | ug/L | | | 10/05/18 04:09 | 2 |
| Cyclohexane | 2.0 | U | 2.0 | 0.36 | ug/L | | | 10/05/18 04:09 | 2 |
| Dibromochloromethane | 2.0 | U * | 2.0 | 0.64 | ug/L | | | 10/05/18 04:09 | 2 |
| Dichlorodifluoromethane | 2.0 | U | 2.0 | 1.4 | ug/L | | | 10/05/18 04:09 | 2 |
| Ethylbenzene | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| Isopropylbenzene | 2.0 | U | 2.0 | 1.6 | ug/L | | | 10/05/18 04:09 | 2 |
| Methyl acetate | 5.0 | U | 5.0 | 2.6 | ug/L | | | 10/05/18 04:09 | 2 |
| Methyl tert-butyl ether | 2.0 | U | 2.0 | 0.32 | ug/L | | | 10/05/18 04:09 | 2 |
| Methylcyclohexane | 2.0 | U | 2.0 | 0.32 | ug/L | | | 10/05/18 04:09 | 2 |
| Methylene Chloride | 2.0 | U | 2.0 | 0.88 | ug/L | | | 10/05/18 04:09 | 2 |
| Styrene | 2.0 | U | 2.0 | 1.5 | ug/L | | | 10/05/18 04:09 | 2 |
| Tetrachloroethene | 2.0 | U | 2.0 | 0.72 | ug/L | | | 10/05/18 04:09 | 2 |
| Toluene | 2.0 | U | 2.0 | 1.0 | ug/L | | | 10/05/18 04:09 | 2 |
| trans-1,2-Dichloroethene | 2.0 | U | 2.0 | 1.8 | ug/L | | | 10/05/18 04:09 | 2 |
| trans-1,3-Dichloropropene | 2.0 | U | 2.0 | 0.74 | ug/L | | | 10/05/18 04:09 | 2 |
| Trichloroethene | 25 | | 2.0 | 0.92 | ug/L | | | 10/05/18 04:09 | 2 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-27S
Date Collected: 09/27/18 10:40
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-28
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|------|---|-----------------|-----------------|----------------|
| Trichlorofluoromethane | 2.0 | U | 2.0 | 1.8 | ug/L | | | 10/05/18 04:09 | 2 |
| Vinyl chloride | 2.0 | U | 2.0 | 1.8 | ug/L | | | 10/05/18 04:09 | 2 |
| Xylenes, Total | 4.0 | U | 4.0 | 1.3 | ug/L | | | 10/05/18 04:09 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 77 - 120 | | | | | 10/05/18 04:09 | 2 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 10/05/18 04:09 | 2 |
| Dibromofluoromethane (Surr) | 111 | | 75 - 123 | | | | | 10/05/18 04:09 | 2 |
| Toluene-d8 (Surr) | 103 | | 80 - 120 | | | | | 10/05/18 04:09 | 2 |

Client Sample ID: 4009-27I
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-29
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 04:36 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 04:36 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 04:36 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 04:36 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 04:36 | 1 |
| Acetone | 4.6 | J | 10 | 3.0 | ug/L | | | 10/05/18 04:36 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 04:36 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 04:36 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 04:36 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 04:36 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 04:36 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 04:36 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 04:36 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 04:36 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 04:36 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 04:36 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 04:36 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 04:36 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 04:36 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-271
Date Collected: 09/27/18 10:45
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-29
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 04:36 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 04:36 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 04:36 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 04:36 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 04:36 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 04:36 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 04:36 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 04:36 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 04:36 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 04:36 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 04:36 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 04:36 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 04:36 | 1 |
| Trichloroethene | 1.7 | | 1.0 | 0.46 | ug/L | | | 10/05/18 04:36 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 04:36 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 04:36 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 04:36 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 109 | | 77 - 120 | | | | | 10/05/18 04:36 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 10/05/18 04:36 | 1 |
| Dibromofluoromethane (Surr) | 109 | | 75 - 123 | | | | | 10/05/18 04:36 | 1 |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | | | | 10/05/18 04:36 | 1 |

Client Sample ID: 4009-27D

Date Collected: 09/27/18 10:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-30

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 | | | 10/05/18 05:03 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/05/18 05:03 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/05/18 05:03 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/05/18 05:03 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/05/18 05:03 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/05/18 05:03 | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-27D
Date Collected: 09/27/18 10:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-30
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|-----------------|-----------------|----------------|---------|
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | | | 10/05/18 05:03 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/05/18 05:03 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/05/18 05:03 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/05/18 05:03 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/05/18 05:03 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/05/18 05:03 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/05/18 05:03 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/05/18 05:03 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/05/18 05:03 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/05/18 05:03 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/05/18 05:03 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/05/18 05:03 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 05:03 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/05/18 05:03 | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | | 10/05/18 05:03 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/05/18 05:03 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/05/18 05:03 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/05/18 05:03 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/05/18 05:03 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 05:03 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/05/18 05:03 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/05/18 05:03 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/05/18 05:03 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/05/18 05:03 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/05/18 05:03 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 05:03 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/05/18 05:03 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/05/18 05:03 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/05/18 05:03 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/05/18 05:03 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/05/18 05:03 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 | | | | 10/05/18 05:03 | 1 | |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | | | 10/05/18 05:03 | 1 | |
| Dibromofluoromethane (Surr) | 108 | | 75 - 123 | | | | 10/05/18 05:03 | 1 | |
| Toluene-d8 (Surr) | 104 | | 80 - 120 | | | | 10/05/18 05:03 | 1 | |

Client Sample ID: 4009-28

Date Collected: 09/27/18 08:35
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-31

Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 3.2 | | 1.0 | 0.82 | ug/L | | | 10/05/18 05:29 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/05/18 05:29 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/05/18 05:29 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/05/18 05:29 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/05/18 05:29 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/05/18 05:29 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-28

Date Collected: 09/27/18 08:35

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-31

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 | | 10/05/18 05:29 | | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | 10/05/18 05:29 | | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | 10/05/18 05:29 | | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | 10/05/18 05:29 | | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | 10/05/18 05:29 | | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | 10/05/18 05:29 | | 1 |
| Acetone | 3.6 | J | 10 | 3.0 | ug/L | | 10/05/18 05:29 | | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | 10/05/18 05:29 | | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | 10/05/18 05:29 | | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | 10/05/18 05:29 | | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | 10/05/18 05:29 | | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | 10/05/18 05:29 | | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | 10/05/18 05:29 | | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | 10/05/18 05:29 | | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | 10/05/18 05:29 | | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | 10/05/18 05:29 | | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | 10/05/18 05:29 | | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | 10/05/18 05:29 | | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/05/18 05:29 | | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | 10/05/18 05:29 | | 1 |
| Dibromochloromethane | 1.0 | U * | 1.0 | 0.32 | ug/L | | 10/05/18 05:29 | | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | 10/05/18 05:29 | | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | 10/05/18 05:29 | | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | 10/05/18 05:29 | | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | 10/05/18 05:29 | | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/05/18 05:29 | | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | 10/05/18 05:29 | | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | 10/05/18 05:29 | | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | 10/05/18 05:29 | | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | 10/05/18 05:29 | | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | 10/05/18 05:29 | | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/05/18 05:29 | | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | 10/05/18 05:29 | | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | 10/05/18 05:29 | | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | 10/05/18 05:29 | | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | 10/05/18 05:29 | | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | 10/05/18 05:29 | | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 | | | | 10/05/18 05:29 | | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | 10/05/18 05:29 | | 1 |
| Dibromofluoromethane (Surr) | 113 | | 75 - 123 | | | | 10/05/18 05:29 | | 1 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-28
Date Collected: 09/27/18 08:35
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-31
Matrix: Water

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

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surrogate) | 102 | | 80 - 120 | | 10/05/18 05:29 | 1 |

Client Sample ID: 4009-29S
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-32
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 960 | | 10 | 8.2 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 10 | 2.1 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | J | 10 | 3.1 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,1,2-Trichloroethane | 10 | U | 10 | 2.3 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,1-Dichloroethane | 90 | | 10 | 3.8 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,1-Dichloroethene | 74 | | 10 | 2.9 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2,3-Trimethylbenzene | 10 | U | 10 | 2.6 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2,4-Trichlorobenzene | 10 | U | 10 | 4.1 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2,4-Trimethylbenzene | 10 | U | 10 | 7.5 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 10 | 3.9 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2-Dibromoethane | 10 | U | 10 | 7.3 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2-Dichlorobenzene | 10 | U | 10 | 7.9 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2-Dichloroethane | 10 | U | 10 | 2.1 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,2-Dichloropropane | 10 | U | 10 | 7.2 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,3,5-Trimethylbenzene | 10 | U | 10 | 7.7 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,3-Dichlorobenzene | 10 | U | 10 | 7.8 | ug/L | | | 10/05/18 05:56 | 10 |
| 1,4-Dichlorobenzene | 10 | U | 10 | 8.4 | ug/L | | | 10/05/18 05:56 | 10 |
| 2-Butanone (MEK) | 100 | U | 100 | 13 | ug/L | | | 10/05/18 05:56 | 10 |
| 2-Hexanone | 50 | U | 50 | 12 | ug/L | | | 10/05/18 05:56 | 10 |
| 4-Methyl-2-pentanone (MIBK) | 50 | U | 50 | 21 | ug/L | | | 10/05/18 05:56 | 10 |
| Acetone | 100 | U | 100 | 30 | ug/L | | | 10/05/18 05:56 | 10 |
| Benzene | 10 | U | 10 | 4.1 | ug/L | | | 10/05/18 05:56 | 10 |
| Bromodichloromethane | 10 | U | 10 | 3.9 | ug/L | | | 10/05/18 05:56 | 10 |
| Bromoform | 10 | U | 10 | 2.6 | ug/L | | | 10/05/18 05:56 | 10 |
| Bromomethane | 10 | U | 10 | 6.9 | ug/L | | | 10/05/18 05:56 | 10 |
| Carbon disulfide | 10 | U | 10 | 1.9 | ug/L | | | 10/05/18 05:56 | 10 |
| Carbon tetrachloride | 10 | U | 10 | 2.7 | ug/L | | | 10/05/18 05:56 | 10 |
| Chlorobenzene | 10 | U | 10 | 7.5 | ug/L | | | 10/05/18 05:56 | 10 |
| Chloroethane | 10 | U | 10 | 3.2 | ug/L | | | 10/05/18 05:56 | 10 |
| Chloroform | 10 | U | 10 | 3.4 | ug/L | | | 10/05/18 05:56 | 10 |
| Chloromethane | 10 | U | 10 | 3.5 | ug/L | | | 10/05/18 05:56 | 10 |
| cis-1,2-Dichloroethene | 470 | | 10 | 8.1 | ug/L | | | 10/05/18 05:56 | 10 |
| cis-1,3-Dichloropropene | 10 | U | 10 | 3.6 | ug/L | | | 10/05/18 05:56 | 10 |
| Cyclohexane | 10 | U | 10 | 1.8 | ug/L | | | 10/05/18 05:56 | 10 |
| Dibromochloromethane | 10 | U* | 10 | 3.2 | ug/L | | | 10/05/18 05:56 | 10 |
| Dichlorodifluoromethane | 10 | U | 10 | 6.8 | ug/L | | | 10/05/18 05:56 | 10 |
| Ethylbenzene | 10 | U | 10 | 7.4 | ug/L | | | 10/05/18 05:56 | 10 |
| Isopropylbenzene | 10 | U | 10 | 7.9 | ug/L | | | 10/05/18 05:56 | 10 |
| Methyl acetate | 25 | U | 25 | 13 | ug/L | | | 10/05/18 05:56 | 10 |
| Methyl tert-butyl ether | 10 | U | 10 | 1.6 | ug/L | | | 10/05/18 05:56 | 10 |

TestAmerica Buffalo

Client Sample Results

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-29S
Date Collected: 09/27/18 10:20
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-32
Matrix: Water

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|-----|------|----------|----------------|----------------|---------|
| Methylcyclohexane | 10 | U | 10 | 1.6 | ug/L | | | 10/05/18 05:56 | 10 |
| Methylene Chloride | 10 | U | 10 | 4.4 | ug/L | | | 10/05/18 05:56 | 10 |
| Styrene | 10 | U | 10 | 7.3 | ug/L | | | 10/05/18 05:56 | 10 |
| Tetrachloroethene | 10 | U | 10 | 3.6 | ug/L | | | 10/05/18 05:56 | 10 |
| Toluene | 10 | U | 10 | 5.1 | ug/L | | | 10/05/18 05:56 | 10 |
| trans-1,2-Dichloroethene | 10 | U | 10 | 9.0 | ug/L | | | 10/05/18 05:56 | 10 |
| trans-1,3-Dichloropropene | 10 | U | 10 | 3.7 | ug/L | | | 10/05/18 05:56 | 10 |
| Trichloroethene | 150 | | 10 | 4.6 | ug/L | | | 10/05/18 05:56 | 10 |
| Trichlorofluoromethane | 10 | U | 10 | 8.8 | ug/L | | | 10/05/18 05:56 | 10 |
| Vinyl chloride | 100 | | 10 | 9.0 | ug/L | | | 10/05/18 05:56 | 10 |
| Xylenes, Total | 20 | U | 20 | 6.6 | ug/L | | | 10/05/18 05:56 | 10 |
| <hr/> | | | | | | | | | |
| Surrogate | %Recovery | Qualifier | Limits | | | Prepared | Analyzed | Dil Fac | 11 |
| 1,2-Dichloroethane-d4 (Surr) | 102 | | 77 - 120 | | | | 10/05/18 05:56 | 10 | 10 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | 10/05/18 05:56 | 10 | 12 |
| Dibromofluoromethane (Surr) | 113 | | 75 - 123 | | | | 10/05/18 05:56 | 10 | 13 |
| Toluene-d8 (Surr) | 107 | | 80 - 120 | | | | 10/05/18 05:56 | 10 | 14 |

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc

TestAmerica Job ID: 480-142551-1

Project/Site: NYSDEC-Standby VESTAL

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | | |
|-------------------|--------------------|--|-----------------|------------------|-----------------|
| | | DCA (77-120) | BFB (73-120) | DBFM (75-123) | TOL (80-120) |
| 480-142551-1 | 4009-29I | 108 | 99 | 110 | 104 |
| 480-142551-2 | 4009-29D | 103 | 102 | 109 | 105 |
| 480-142551-3 | 4009-30 | 108 | 100 | 110 | 102 |
| 480-142551-4 | 4009-30A | 108 | 100 | 104 | 103 |
| 480-142551-5 | 4009-11A | 104 | 98 | 106 | 103 |
| 480-142551-6 | DUP1 | 108 | 100 | 111 | 104 |
| 480-142551-7 | DUP2 | 110 | 101 | 114 | 102 |
| 480-142551-8 | 4009-26 | 107 | 97 | 114 | 104 |
| 480-142551-9 | TRIP BLANK1 | 104 | 102 | 108 | 105 |
| 480-142551-10 | TRIP BLANK 2 | 106 | 101 | 107 | 104 |
| 480-142551-11 | 4009-7 | 110 | 100 | 111 | 107 |
| 480-142551-12 | 4009-8 | 104 | 101 | 112 | 106 |
| 480-142551-12 MS | 4009-8 | 111 | 100 | 110 | 105 |
| 480-142551-12 MSD | 4009-8 | 105 | 103 | 105 | 107 |
| 480-142551-13 | WELL 1-1 | 112 | 99 | 115 | 102 |
| 480-142551-14 | 4009-9 | 110 | 96 | 113 | 100 |
| 480-142551-15 | 4009-10 | 111 | 100 | 111 | 106 |
| 480-142551-16 | 4009-11 | 102 | 103 | 104 | 103 |
| 480-142551-17 | 4009-12 | 103 | 100 | 111 | 105 |
| 480-142551-18 | 4009-13 | 105 | 100 | 111 | 101 |
| 480-142551-19 | 4009-13A | 103 | 98 | 104 | 101 |
| 480-142551-20 | 4009-14 | 106 | 99 | 112 | 101 |
| 480-142551-21 | 4009-15 | 104 | 96 | 109 | 101 |
| 480-142551-22 | 4009-16 | 103 | 101 | 107 | 105 |
| 480-142551-23 | 4009-16A | 111 | 97 | 107 | 100 |
| 480-142551-24 | 4009-18 | 100 | 98 | 104 | 103 |
| 480-142551-25 | 4009-19 | 105 | 100 | 105 | 101 |
| 480-142551-26 | 4009-21 | 108 | 100 | 109 | 102 |
| 480-142551-27 | 4009-22 | 107 | 102 | 110 | 105 |
| 480-142551-28 | 4009-27S | 110 | 96 | 111 | 103 |
| 480-142551-29 | 4009-27I | 109 | 98 | 109 | 104 |
| 480-142551-30 | 4009-27D | 107 | 102 | 108 | 104 |
| 480-142551-31 | 4009-28 | 108 | 98 | 113 | 102 |
| 480-142551-32 | 4009-29S | 102 | 101 | 113 | 107 |
| 480-142551-32 MS | 4009-29S | 105 | 103 | 106 | 101 |
| 480-142551-32 MSD | 4009-29S | 108 | 105 | 104 | 106 |
| LCS 480-437600/5 | Lab Control Sample | 110 | 101 | 106 | 103 |
| LCS 480-437800/5 | Lab Control Sample | 107 | 104 | 106 | 105 |
| MB 480-437600/7 | Method Blank | 108 | 100 | 107 | 104 |
| MB 480-437800/7 | Method Blank | 104 | 101 | 104 | 105 |

Surrogate Legend

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

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: MB 480-437600/7

Matrix: Water

Analysis Batch: 437600

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 11:05 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 11:05 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 11:05 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 11:05 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 11:05 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/04/18 11:05 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 11:05 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 11:05 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 11:05 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 11:05 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 11:05 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 11:05 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 11:05 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 11:05 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 11:05 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 11:05 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 11:05 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 11:05 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 11:05 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 11:05 | 1 |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 11:05 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 11:05 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 11:05 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 11:05 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 11:05 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 11:05 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 11:05 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 11:05 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 11:05 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 11:05 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 11:05 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 11:05 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 11:05 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: MB 480-437600/7

Matrix: Water

Analysis Batch: 437600

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----|----|--------|-----------|------|------|------|---|----------|----------------|---------|
| | 1.0 | U | | | | | | | | | |
| Trichlorofluoromethane | 1.0 | U | 1.0 | | 0.88 | ug/L | | | | 10/04/18 11:05 | 1 |
| Vinyl chloride | 1.0 | U | | | 1.0 | 0.90 | ug/L | | | 10/04/18 11:05 | 1 |
| Xylenes, Total | 2.0 | U | | | 2.0 | 0.66 | ug/L | | | 10/04/18 11:05 | 1 |

| Surrogate | MB | MB | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----|----------|-----------|-----------|--------|----------|----------------|---------|
| | 108 | 77 - 120 | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 100 | 73 - 120 | | | | | 10/04/18 11:05 | 1 |
| 4-Bromofluorobenzene (Surr) | 107 | 75 - 123 | | | | | 10/04/18 11:05 | 1 |
| Dibromofluoromethane (Surr) | 104 | 80 - 120 | | | | | 10/04/18 11:05 | 1 |
| Toluene-d8 (Surr) | | | | | | | | |

Lab Sample ID: LCS 480-437600/5

Matrix: Water

Analysis Batch: 437600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCs | LCs | Unit | D | %Rec | Limits | %Rec. |
|---|----------------|--------|-----------|------|---|------|----------|-------|
| | | Result | Qualifier | | | | | |
| 1,1,1-Trichloroethane | 25.0 | 26.0 | | ug/L | | 104 | 73 - 126 | |
| 1,1,2,2-Tetrachloroethane | 25.0 | 23.5 | | ug/L | | 94 | 76 - 120 | |
| 1,1,2-Trichloro-1,2,2-trifluoroetha ne | 25.0 | 24.7 | | ug/L | | 99 | 61 - 148 | |
| 1,1,2-Trichloroethane | 25.0 | 23.1 | | ug/L | | 92 | 76 - 122 | |
| 1,1-Dichloroethane | 25.0 | 25.5 | | ug/L | | 102 | 77 - 120 | |
| 1,1-Dichloroethene | 25.0 | 25.8 | | ug/L | | 103 | 66 - 127 | |
| 1,2,3-Trimethylbenzene | 25.0 | 26.4 | | ug/L | | 106 | 78 - 120 | |
| 1,2,4-Trichlorobenzene | 25.0 | 21.2 | | ug/L | | 85 | 79 - 122 | |
| 1,2,4-Trimethylbenzene | 25.0 | 23.7 | | ug/L | | 95 | 76 - 121 | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 21.6 | | ug/L | | 86 | 56 - 134 | |
| 1,2-Dibromoethane | 25.0 | 24.5 | | ug/L | | 98 | 77 - 120 | |
| 1,2-Dichlorobenzene | 25.0 | 23.1 | | ug/L | | 93 | 80 - 124 | |
| 1,2-Dichloroethane | 25.0 | 23.0 | | ug/L | | 92 | 75 - 120 | |
| 1,2-Dichloropropane | 25.0 | 26.4 | | ug/L | | 106 | 76 - 120 | |
| 1,3,5-Trimethylbenzene | 25.0 | 24.2 | | ug/L | | 97 | 77 - 121 | |
| 1,3-Dichlorobenzene | 25.0 | 23.5 | | ug/L | | 94 | 77 - 120 | |
| 1,4-Dichlorobenzene | 25.0 | 23.2 | | ug/L | | 93 | 80 - 120 | |
| 2-Butanone (MEK) | 125 | 121 | | ug/L | | 97 | 57 - 140 | |
| 2-Hexanone | 125 | 119 | | ug/L | | 96 | 65 - 127 | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 117 | | ug/L | | 94 | 71 - 125 | |
| Acetone | 125 | 126 | | ug/L | | 100 | 56 - 142 | |
| Benzene | 25.0 | 24.2 | | ug/L | | 97 | 71 - 124 | |
| Bromodichloromethane | 25.0 | 24.2 | | ug/L | | 97 | 80 - 122 | |
| Bromoform | 25.0 | 25.0 | | ug/L | | 100 | 61 - 132 | |
| Bromomethane | 25.0 | 30.1 | | ug/L | | 120 | 55 - 144 | |
| Carbon disulfide | 25.0 | 25.1 | | ug/L | | 100 | 59 - 134 | |
| Carbon tetrachloride | 25.0 | 27.4 | | ug/L | | 110 | 72 - 134 | |
| Chlorobenzene | 25.0 | 24.4 | | ug/L | | 98 | 80 - 120 | |
| Chloroethane | 25.0 | 25.2 | | ug/L | | 101 | 69 - 136 | |
| Chloroform | 25.0 | 24.2 | | ug/L | | 97 | 73 - 127 | |
| Chloromethane | 25.0 | 20.8 | | ug/L | | 83 | 68 - 124 | |
| cis-1,2-Dichloroethene | 25.0 | 26.3 | | ug/L | | 105 | 74 - 124 | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: LCS 480-437600/5

Matrix: Water

Analysis Batch: 437600

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | | Unit | D | %Rec | Limits | |
|---------------------------|----------------|--------|-----------|------|---|------|----------|--|
| | | Result | Qualifier | | | | | |
| cis-1,3-Dichloropropene | 25.0 | 25.9 | | ug/L | | 104 | 74 - 124 | |
| Cyclohexane | 25.0 | 23.1 | | ug/L | | 92 | 59 - 135 | |
| Dibromochloromethane | 25.0 | 27.1 | | ug/L | | 108 | 75 - 125 | |
| Dichlorodifluoromethane | 25.0 | 21.9 | | ug/L | | 87 | 59 - 135 | |
| Ethylbenzene | 25.0 | 24.2 | | ug/L | | 97 | 77 - 123 | |
| Isopropylbenzene | 25.0 | 22.9 | | ug/L | | 91 | 77 - 122 | |
| Methyl acetate | 50.0 | 41.9 | | ug/L | | 84 | 74 - 133 | |
| Methyl tert-butyl ether | 25.0 | 26.1 | | ug/L | | 105 | 77 - 120 | |
| Methylcyclohexane | 25.0 | 24.6 | | ug/L | | 99 | 68 - 134 | |
| Methylene Chloride | 25.0 | 25.0 | | ug/L | | 100 | 75 - 124 | |
| Styrene | 25.0 | 23.4 | | ug/L | | 94 | 80 - 120 | |
| Tetrachloroethene | 25.0 | 25.0 | | ug/L | | 100 | 74 - 122 | |
| Toluene | 25.0 | 24.5 | | ug/L | | 98 | 80 - 122 | |
| trans-1,2-Dichloroethene | 25.0 | 25.2 | | ug/L | | 101 | 73 - 127 | |
| trans-1,3-Dichloropropene | 25.0 | 24.1 | | ug/L | | 96 | 80 - 120 | |
| Trichloroethene | 25.0 | 25.4 | | ug/L | | 101 | 74 - 123 | |
| Trichlorofluoromethane | 25.0 | 28.6 | | ug/L | | 114 | 62 - 150 | |
| Vinyl chloride | 25.0 | 25.9 | | ug/L | | 104 | 65 - 133 | |

LCS LCS

| Surrogate | %Recovery | LCS | | Limits |
|------------------------------|-----------|--------|-----------|----------|
| | | Result | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 101 | | | 73 - 120 |
| Dibromofluoromethane (Surr) | 106 | | | 75 - 123 |
| Toluene-d8 (Surr) | 103 | | | 80 - 120 |

Lab Sample ID: 480-142551-12 MS

Matrix: Water

Analysis Batch: 437600

Client Sample ID: 4009-8

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS | | Unit | D | %Rec | Limits |
|---------------------------------------|------------------|---------------------|----------------|--------|-----------|------|---|------|----------|
| | | | | Result | Qualifier | | | | |
| 1,1,1-Trichloroethane | 3700 | | 1000 | 1110 | * | ug/L | | -258 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 40 | U | 1000 | 956 | | ug/L | | 96 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 | U | 1000 | 917 | | ug/L | | 92 | 61 - 148 |
| ne | | | | | | | | | |
| 1,1,2-Trichloroethane | 40 | U | 1000 | 932 | | ug/L | | 93 | 76 - 122 |
| 1,1-Dichloroethane | 150 | | 1000 | 1000 | | ug/L | | 85 | 77 - 120 |
| 1,1-Dichloroethene | 160 | | 1000 | 1030 | | ug/L | | 87 | 66 - 127 |
| 1,2,3-Trimethylbenzene | 40 | U | 1000 | 1040 | | ug/L | | 104 | 78 - 120 |
| 1,2,4-Trichlorobenzene | 40 | U | 1000 | 860 | | ug/L | | 86 | 79 - 122 |
| 1,2,4-Trimethylbenzene | 40 | U | 1000 | 905 | | ug/L | | 91 | 76 - 121 |
| 1,2-Dibromo-3-Chloropropane | 40 | U | 1000 | 962 | | ug/L | | 96 | 56 - 134 |
| 1,2-Dibromoethane | 40 | U | 1000 | 958 | | ug/L | | 96 | 77 - 120 |
| 1,2-Dichlorobenzene | 40 | U | 1000 | 940 | | ug/L | | 94 | 80 - 124 |
| 1,2-Dichloroethane | 40 | U | 1000 | 936 | | ug/L | | 94 | 75 - 120 |
| 1,2-Dichloropropane | 40 | U | 1000 | 1010 | | ug/L | | 101 | 76 - 120 |
| 1,3,5-Trimethylbenzene | 40 | U | 1000 | 933 | | ug/L | | 93 | 77 - 121 |
| 1,3-Dichlorobenzene | 40 | U | 1000 | 910 | | ug/L | | 91 | 77 - 120 |
| 1,4-Dichlorobenzene | 40 | U | 1000 | 931 | | ug/L | | 93 | 78 - 124 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: 480-142551-12 MS

Matrix: Water

Analysis Batch: 437600

Client Sample ID: 4009-8

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | |
|------------------------------|--------|------------------|------------------|----------|-----------|------|---|------|----------|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | | |
| 2-Butanone (MEK) | 400 | U | 5000 | 4040 | | ug/L | | 81 | 57 - 140 | |
| 2-Hexanone | 200 | U | 5000 | 4760 | | ug/L | | 95 | 65 - 127 | |
| 4-Methyl-2-pentanone (MIBK) | 200 | U | 5000 | 4770 | | ug/L | | 95 | 71 - 125 | |
| Acetone | 400 | U | 5000 | 4060 | | ug/L | | 81 | 56 - 142 | |
| Benzene | 40 | U | 1000 | 934 | | ug/L | | 93 | 71 - 124 | |
| Bromodichloromethane | 40 | U | 1000 | 984 | | ug/L | | 98 | 80 - 122 | |
| Bromoform | 40 | U | 1000 | 1040 | | ug/L | | 104 | 61 - 132 | |
| Bromomethane | 40 | U | 1000 | 1200 | | ug/L | | 120 | 55 - 144 | |
| Carbon disulfide | 40 | U | 1000 | 1030 | | ug/L | | 103 | 59 - 134 | |
| Carbon tetrachloride | 40 | U | 1000 | 1060 | | ug/L | | 106 | 72 - 134 | |
| Chlorobenzene | 40 | U | 1000 | 960 | | ug/L | | 96 | 80 - 120 | |
| Chloroethane | 40 | U | 1000 | 999 | | ug/L | | 100 | 69 - 136 | |
| Chloroform | 40 | U | 1000 | 945 | | ug/L | | 94 | 73 - 127 | |
| Chloromethane | 40 | U | 1000 | 888 | | ug/L | | 89 | 68 - 124 | |
| cis-1,2-Dichloroethene | 910 | | 1000 | 1070 | * | ug/L | | 16 | 74 - 124 | |
| cis-1,3-Dichloropropene | 40 | U | 1000 | 982 | | ug/L | | 98 | 74 - 124 | |
| Cyclohexane | 40 | U | 1000 | 890 | | ug/L | | 89 | 59 - 135 | |
| Dibromochloromethane | 40 | U | 1000 | 1180 | | ug/L | | 118 | 75 - 125 | |
| Dichlorodifluoromethane | 40 | U | 1000 | 969 | | ug/L | | 97 | 59 - 135 | |
| Ethylbenzene | 40 | U | 1000 | 920 | | ug/L | | 92 | 77 - 123 | |
| Isopropylbenzene | 40 | U | 1000 | 871 | | ug/L | | 87 | 77 - 122 | |
| Methyl acetate | 100 | U | 2000 | 1890 | | ug/L | | 94 | 74 - 133 | |
| Methyl tert-butyl ether | 40 | U | 1000 | 1040 | | ug/L | | 104 | 77 - 120 | |
| Methylcyclohexane | 40 | U | 1000 | 909 | | ug/L | | 91 | 68 - 134 | |
| Methylene Chloride | 40 | U | 1000 | 1020 | | ug/L | | 102 | 75 - 124 | |
| Styrene | 40 | U | 1000 | 923 | | ug/L | | 92 | 80 - 120 | |
| Tetrachloroethene | 40 | U | 1000 | 945 | | ug/L | | 95 | 74 - 122 | |
| Toluene | 40 | U | 1000 | 946 | | ug/L | | 95 | 80 - 122 | |
| trans-1,2-Dichloroethene | 40 | U | 1000 | 992 | | ug/L | | 99 | 73 - 127 | |
| trans-1,3-Dichloropropene | 40 | U | 1000 | 943 | | ug/L | | 94 | 80 - 120 | |
| Trichloroethene | 580 | | 1000 | 1030 | * | ug/L | | 45 | 74 - 123 | |
| Trichlorofluoromethane | 40 | U | 1000 | 1100 | | ug/L | | 110 | 62 - 150 | |
| Vinyl chloride | 40 | U | 1000 | 1070 | | ug/L | | 107 | 65 - 133 | |
| Surrogate | | MS | MS | | | | | | | |
| | | %Recovery | Qualifier | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | | 111 | | 77 - 120 | | | | | | |
| 4-Bromofluorobenzene (Surr) | | 100 | | 73 - 120 | | | | | | |
| Dibromofluoromethane (Surr) | | 110 | | 75 - 123 | | | | | | |
| Toluene-d8 (Surr) | | 105 | | 80 - 120 | | | | | | |

Lab Sample ID: 480-142551-12 MSD

Matrix: Water

Analysis Batch: 437600

Client Sample ID: 4009-8

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | Limit |
|---------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| 1,1,1-Trichloroethane | 3700 | | 1000 | 1140 | * | ug/L | | -255 | 73 - 126 | 3 | 15 |
| 1,1,2,2-Tetrachloroethane | 40 | U | 1000 | 968 | | ug/L | | 97 | 76 - 120 | 1 | 15 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: 480-142551-12 MSD

Client Sample ID: 4009-8

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 437600

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec. | | RPD | RPD | Limit |
|---------------------------------------|--------|-----------|-------|--------|-----------|------|---|-------|----------|-----|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | 94 | Limits | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 40 | U | 1000 | 935 | | ug/L | | 99 | 61 - 148 | 2 | 20 | |
| 1,1,2-Trichloroethane | 40 | U | 1000 | 994 | | ug/L | | 99 | 76 - 122 | 6 | 15 | |
| 1,1-Dichloroethane | 150 | | 1000 | 989 | | ug/L | | 84 | 77 - 120 | 1 | 20 | |
| 1,1-Dichloroethene | 160 | | 1000 | 1040 | | ug/L | | 89 | 66 - 127 | 1 | 16 | |
| 1,2,3-Trimethylbenzene | 40 | U | 1000 | 1090 | | ug/L | | 109 | 78 - 120 | 4 | 20 | |
| 1,2,4-Trichlorobenzene | 40 | U | 1000 | 872 | | ug/L | | 87 | 79 - 122 | 1 | 20 | |
| 1,2,4-Trimethylbenzene | 40 | U | 1000 | 953 | | ug/L | | 95 | 76 - 121 | 5 | 20 | |
| 1,2-Dibromo-3-Chloropropane | 40 | U | 1000 | 942 | | ug/L | | 94 | 56 - 134 | 2 | 15 | |
| 1,2-Dibromoethane | 40 | U | 1000 | 1030 | | ug/L | | 103 | 77 - 120 | 7 | 15 | |
| 1,2-Dichlorobenzene | 40 | U | 1000 | 973 | | ug/L | | 97 | 80 - 124 | 4 | 20 | |
| 1,2-Dichloroethane | 40 | U | 1000 | 916 | | ug/L | | 92 | 75 - 120 | 2 | 20 | |
| 1,2-Dichloropropane | 40 | U | 1000 | 979 | | ug/L | | 98 | 76 - 120 | 3 | 20 | |
| 1,3,5-Trimethylbenzene | 40 | U | 1000 | 966 | | ug/L | | 97 | 77 - 121 | 4 | 20 | |
| 1,3-Dichlorobenzene | 40 | U | 1000 | 959 | | ug/L | | 96 | 77 - 120 | 5 | 20 | |
| 1,4-Dichlorobenzene | 40 | U | 1000 | 958 | | ug/L | | 96 | 78 - 124 | 3 | 20 | |
| 2-Butanone (MEK) | 400 | U | 5000 | 4420 | | ug/L | | 88 | 57 - 140 | 9 | 20 | |
| 2-Hexanone | 200 | U | 5000 | 4360 | | ug/L | | 87 | 65 - 127 | 9 | 15 | |
| 4-Methyl-2-pentanone (MIBK) | 200 | U | 5000 | 4730 | | ug/L | | 95 | 71 - 125 | 1 | 35 | |
| Acetone | 400 | U | 5000 | 3770 | | ug/L | | 75 | 56 - 142 | 8 | 15 | |
| Benzene | 40 | U | 1000 | 922 | | ug/L | | 92 | 71 - 124 | 1 | 13 | |
| Bromodichloromethane | 40 | U | 1000 | 936 | | ug/L | | 94 | 80 - 122 | 5 | 15 | |
| Bromoform | 40 | U | 1000 | 1130 | | ug/L | | 113 | 61 - 132 | 8 | 15 | |
| Bromomethane | 40 | U | 1000 | 1080 | | ug/L | | 108 | 55 - 144 | 10 | 15 | |
| Carbon disulfide | 40 | U | 1000 | 1020 | | ug/L | | 102 | 59 - 134 | 1 | 15 | |
| Carbon tetrachloride | 40 | U | 1000 | 1060 | | ug/L | | 106 | 72 - 134 | 0 | 15 | |
| Chlorobenzene | 40 | U | 1000 | 1030 | | ug/L | | 103 | 80 - 120 | 7 | 25 | |
| Chloroethane | 40 | U | 1000 | 970 | | ug/L | | 97 | 69 - 136 | 3 | 15 | |
| Chloroform | 40 | U | 1000 | 946 | | ug/L | | 95 | 73 - 127 | 0 | 20 | |
| Chloromethane | 40 | U | 1000 | 852 | | ug/L | | 85 | 68 - 124 | 4 | 15 | |
| cis-1,2-Dichloroethene | 910 | | 1000 | 1020 | * | ug/L | | 11 | 74 - 124 | 4 | 15 | |
| cis-1,3-Dichloropropene | 40 | U | 1000 | 995 | | ug/L | | 99 | 74 - 124 | 1 | 15 | |
| Cyclohexane | 40 | U | 1000 | 895 | | ug/L | | 90 | 59 - 135 | 1 | 20 | |
| Dibromochloromethane | 40 | U | 1000 | 1260 | * | ug/L | | 126 | 75 - 125 | 7 | 15 | |
| Dichlorodifluoromethane | 40 | U | 1000 | 978 | | ug/L | | 98 | 59 - 135 | 1 | 20 | |
| Ethylbenzene | 40 | U | 1000 | 976 | | ug/L | | 98 | 77 - 123 | 6 | 15 | |
| Isopropylbenzene | 40 | U | 1000 | 927 | | ug/L | | 93 | 77 - 122 | 6 | 20 | |
| Methyl acetate | 100 | U | 2000 | 1730 | | ug/L | | 86 | 74 - 133 | 9 | 20 | |
| Methyl tert-butyl ether | 40 | U | 1000 | 995 | | ug/L | | 100 | 77 - 120 | 4 | 37 | |
| Methylcyclohexane | 40 | U | 1000 | 904 | | ug/L | | 90 | 68 - 134 | 1 | 20 | |
| Methylene Chloride | 40 | U | 1000 | 994 | | ug/L | | 99 | 75 - 124 | 3 | 15 | |
| Styrene | 40 | U | 1000 | 980 | | ug/L | | 98 | 80 - 120 | 6 | 20 | |
| Tetrachloroethene | 40 | U | 1000 | 1020 | | ug/L | | 102 | 74 - 122 | 7 | 20 | |
| Toluene | 40 | U | 1000 | 1000 | | ug/L | | 100 | 80 - 122 | 6 | 15 | |
| trans-1,2-Dichloroethene | 40 | U | 1000 | 965 | | ug/L | | 96 | 73 - 127 | 3 | 20 | |
| trans-1,3-Dichloropropene | 40 | U | 1000 | 1010 | | ug/L | | 101 | 80 - 120 | 7 | 15 | |
| Trichloroethene | 580 | | 1000 | 1030 | * | ug/L | | 45 | 74 - 123 | 0 | 16 | |
| Trichlorofluoromethane | 40 | U | 1000 | 1080 | | ug/L | | 108 | 62 - 150 | 1 | 20 | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

TestAmerica Job ID: 480-142551-1

Project/Site: NYSDEC-Standby VESTAL

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

Lab Sample ID: 480-142551-12 MSD

Matrix: Water

Analysis Batch: 437600

Client Sample ID: 4009-8

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. | RPD | RPD | Limit |
|------------------------------|--------|-----------|-------|----------|-----------|------|---|------|----------|-----|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | 104 | | | |
| Vinyl chloride | 40 | U | 1000 | 1040 | | ug/L | | | 65 - 133 | 3 | 15 | |
| Surrogate | | | | | | | | | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | | 77 - 120 | | | | | | | | |
| 4-Bromofluorobenzene (Surr) | 103 | | | 73 - 120 | | | | | | | | |
| Dibromofluoromethane (Surr) | 105 | | | 75 - 123 | | | | | | | | |
| Toluene-d8 (Surr) | 107 | | | 80 - 120 | | | | | | | | |

Lab Sample ID: MB 480-437800/7

Client Sample ID: Method Blank

Prep Type: Total/NA

Matrix: Water

Analysis Batch: 437800

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2,3-Trimethylbenzene | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 | ug/L | | | 10/04/18 22:07 | 1 |
| 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 | ug/L | | | 10/04/18 22:07 | 1 |
| 2-Butanone (MEK) | 10 | U | 10 | 1.3 | ug/L | | | 10/04/18 22:07 | 1 |
| 2-Hexanone | 5.0 | U | 5.0 | 1.2 | ug/L | | | 10/04/18 22:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 | ug/L | | | 10/04/18 22:07 | 1 |
| Acetone | 10 | U | 10 | 3.0 | ug/L | | | 10/04/18 22:07 | 1 |
| Benzene | 1.0 | U | 1.0 | 0.41 | ug/L | | | 10/04/18 22:07 | 1 |
| Bromodichloromethane | 1.0 | U | 1.0 | 0.39 | ug/L | | | 10/04/18 22:07 | 1 |
| Bromoform | 1.0 | U | 1.0 | 0.26 | ug/L | | | 10/04/18 22:07 | 1 |
| Bromomethane | 1.0 | U | 1.0 | 0.69 | ug/L | | | 10/04/18 22:07 | 1 |
| Carbon disulfide | 1.0 | U | 1.0 | 0.19 | ug/L | | | 10/04/18 22:07 | 1 |
| Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 | ug/L | | | 10/04/18 22:07 | 1 |
| Chlorobenzene | 1.0 | U | 1.0 | 0.75 | ug/L | | | 10/04/18 22:07 | 1 |
| Chloroethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 22:07 | 1 |
| Chloroform | 1.0 | U | 1.0 | 0.34 | ug/L | | | 10/04/18 22:07 | 1 |
| Chloromethane | 1.0 | U | 1.0 | 0.35 | ug/L | | | 10/04/18 22:07 | 1 |
| cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 | ug/L | | | 10/04/18 22:07 | 1 |
| cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 22:07 | 1 |
| Cyclohexane | 1.0 | U | 1.0 | 0.18 | ug/L | | | 10/04/18 22:07 | 1 |
| Dibromochloromethane | 1.0 | U | 1.0 | 0.32 | ug/L | | | 10/04/18 22:07 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: MB 480-437800/7

Matrix: Water

Analysis Batch: 437800

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 | ug/L | | | 10/04/18 22:07 | 1 |
| Ethylbenzene | 1.0 | U | 1.0 | 0.74 | ug/L | | | 10/04/18 22:07 | 1 |
| Isopropylbenzene | 1.0 | U | 1.0 | 0.79 | ug/L | | | 10/04/18 22:07 | 1 |
| Methyl acetate | 2.5 | U | 2.5 | 1.3 | ug/L | | | 10/04/18 22:07 | 1 |
| Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 22:07 | 1 |
| Methylcyclohexane | 1.0 | U | 1.0 | 0.16 | ug/L | | | 10/04/18 22:07 | 1 |
| Methylene Chloride | 1.0 | U | 1.0 | 0.44 | ug/L | | | 10/04/18 22:07 | 1 |
| Styrene | 1.0 | U | 1.0 | 0.73 | ug/L | | | 10/04/18 22:07 | 1 |
| Tetrachloroethene | 1.0 | U | 1.0 | 0.36 | ug/L | | | 10/04/18 22:07 | 1 |
| Toluene | 1.0 | U | 1.0 | 0.51 | ug/L | | | 10/04/18 22:07 | 1 |
| trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 22:07 | 1 |
| trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 | ug/L | | | 10/04/18 22:07 | 1 |
| Trichloroethene | 1.0 | U | 1.0 | 0.46 | ug/L | | | 10/04/18 22:07 | 1 |
| Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 | ug/L | | | 10/04/18 22:07 | 1 |
| Vinyl chloride | 1.0 | U | 1.0 | 0.90 | ug/L | | | 10/04/18 22:07 | 1 |
| Xylenes, Total | 2.0 | U | 2.0 | 0.66 | ug/L | | | 10/04/18 22:07 | 1 |

| Surrogate | MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 77 - 120 | | 10/04/18 22:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | 10/04/18 22:07 | 1 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 | | 10/04/18 22:07 | 1 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 | | 10/04/18 22:07 | 1 |

Lab Sample ID: LCS 480-437800/5

Matrix: Water

Analysis Batch: 437800

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

| Analyte | Spike | | LCS Result | LCS Qualifier | Unit | D | %Rec | Limits | %Rec. |
|---------------------------------------|-------|--------|------------|---------------|------|-----|----------|--------|-------|
| | Added | Result | | | | | | | |
| 1,1,1-Trichloroethane | 25.0 | 26.9 | ug/L | | | 107 | 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 | 23.5 | ug/L | | | 94 | 61 - 148 | | |
| 1,1,2-Trichloroethane | 25.0 | 27.1 | ug/L | | | 108 | 76 - 122 | | |
| 1,1-Dichloroethane | 25.0 | 26.8 | ug/L | | | 107 | 77 - 120 | | |
| 1,1-Dichloroethene | 25.0 | 25.9 | ug/L | | | 103 | 66 - 127 | | |
| 1,2,3-Trimethylbenzene | 25.0 | 28.0 | ug/L | | | 112 | 78 - 120 | | |
| 1,2,4-Trichlorobenzene | 25.0 | 23.7 | ug/L | | | 95 | 79 - 122 | | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.0 | ug/L | | | 100 | 76 - 121 | | |
| 1,2-Dibromo-3-Chloropropane | 25.0 | 24.1 | ug/L | | | 96 | 56 - 134 | | |
| 1,2-Dibromoethane | 25.0 | 27.3 | ug/L | | | 109 | 77 - 120 | | |
| 1,2-Dichlorobenzene | 25.0 | 25.4 | ug/L | | | 102 | 80 - 124 | | |
| 1,2-Dichloroethane | 25.0 | 24.4 | ug/L | | | 98 | 75 - 120 | | |
| 1,2-Dichloropropane | 25.0 | 27.2 | ug/L | | | 109 | 76 - 120 | | |
| 1,3,5-Trimethylbenzene | 25.0 | 26.1 | ug/L | | | 105 | 77 - 121 | | |
| 1,3-Dichlorobenzene | 25.0 | 25.6 | ug/L | | | 102 | 77 - 120 | | |
| 1,4-Dichlorobenzene | 25.0 | 25.5 | ug/L | | | 102 | 80 - 120 | | |
| 2-Butanone (MEK) | 125 | 142 | ug/L | | | 114 | 57 - 140 | | |
| 2-Hexanone | 125 | 141 | ug/L | | | 113 | 65 - 127 | | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: LCS 480-437800/5

Matrix: Water

Analysis Batch: 437800

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS | | Unit | D | %Rec | %Rec. |
|-----------------------------|----------------|--------|-----------|------|---|------|----------|
| | | Result | Qualifier | | | | |
| 4-Methyl-2-pentanone (MIBK) | 125 | 134 | | ug/L | | 107 | 71 - 125 |
| Acetone | 125 | 151 | | ug/L | | 121 | 56 - 142 |
| Benzene | 25.0 | 24.7 | | ug/L | | 99 | 71 - 124 |
| Bromodichloromethane | 25.0 | 25.8 | | ug/L | | 103 | 80 - 122 |
| Bromoform | 25.0 | 27.9 | | ug/L | | 111 | 61 - 132 |
| Bromomethane | 25.0 | 28.6 | | ug/L | | 114 | 55 - 144 |
| Carbon disulfide | 25.0 | 25.1 | | ug/L | | 101 | 59 - 134 |
| Carbon tetrachloride | 25.0 | 27.5 | | ug/L | | 110 | 72 - 134 |
| Chlorobenzene | 25.0 | 27.0 | | ug/L | | 108 | 80 - 120 |
| Chloroethane | 25.0 | 25.1 | | ug/L | | 100 | 69 - 136 |
| Chloroform | 25.0 | 25.5 | | ug/L | | 102 | 73 - 127 |
| Chloromethane | 25.0 | 20.9 | | ug/L | | 84 | 68 - 124 |
| cis-1,2-Dichloroethene | 25.0 | 27.7 | | ug/L | | 111 | 74 - 124 |
| cis-1,3-Dichloropropene | 25.0 | 26.6 | | ug/L | | 106 | 74 - 124 |
| Cyclohexane | 25.0 | 21.7 | | ug/L | | 87 | 59 - 135 |
| Dibromochloromethane | 25.0 | 32.2 * | | ug/L | | 129 | 75 - 125 |
| Dichlorodifluoromethane | 25.0 | 20.2 | | ug/L | | 81 | 59 - 135 |
| Ethylbenzene | 25.0 | 25.9 | | ug/L | | 103 | 77 - 123 |
| Isopropylbenzene | 25.0 | 24.1 | | ug/L | | 96 | 77 - 122 |
| Methyl acetate | 50.0 | 47.0 | | ug/L | | 94 | 74 - 133 |
| Methyl tert-butyl ether | 25.0 | 27.9 | | ug/L | | 112 | 77 - 120 |
| Methylcyclohexane | 25.0 | 23.2 | | ug/L | | 93 | 68 - 134 |
| Methylene Chloride | 25.0 | 28.7 | | ug/L | | 115 | 75 - 124 |
| Styrene | 25.0 | 26.1 | | ug/L | | 104 | 80 - 120 |
| Tetrachloroethene | 25.0 | 27.8 | | ug/L | | 111 | 74 - 122 |
| Toluene | 25.0 | 26.3 | | ug/L | | 105 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 25.9 | | ug/L | | 104 | 73 - 127 |
| trans-1,3-Dichloropropene | 25.0 | 26.8 | | ug/L | | 107 | 80 - 120 |
| Trichloroethene | 25.0 | 25.3 | | ug/L | | 101 | 74 - 123 |
| Trichlorofluoromethane | 25.0 | 24.8 | | ug/L | | 99 | 62 - 150 |
| Vinyl chloride | 25.0 | 23.8 | | ug/L | | 95 | 65 - 133 |

LCS LCS

| Surrogate | %Recovery | Qualifier | Limits |
|------------------------------|-----------|-----------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 75 - 123 |
| Toluene-d8 (Surr) | 105 | | 80 - 120 |

Lab Sample ID: 480-142551-32 MS

Matrix: Water

Analysis Batch: 437800

Client Sample ID: 4009-29S

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS | | Unit | D | %Rec | %Rec. |
|---------------------------------------|------------------|---------------------|----------------|--------|-----------|------|---|------|----------|
| | | | | Result | Qualifier | | | | |
| 1,1,1-Trichloroethane | 960 | | 250 | 1140 | E | ug/L | | 74 | 73 - 126 |
| 1,1,2,2-Tetrachloroethane | 10 | U | 250 | 254 | | ug/L | | 102 | 76 - 120 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | J | 250 | 253 | | ug/L | | 99 | 61 - 148 |
| 1,1,2-Trichloroethane | 10 | U | 250 | 255 | | ug/L | | 102 | 76 - 122 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: 480-142551-32 MS

Matrix: Water

Analysis Batch: 437800

Client Sample ID: 4009-29S

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | Limits | | |
|-----------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|--|--|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| 1,1-Dichloroethane | 90 | | 250 | 340 | | ug/L | | 100 | 77 - 120 | | |
| 1,1-Dichloroethene | 74 | | 250 | 344 | | ug/L | | 108 | 66 - 127 | | |
| 1,2,3-Trimethylbenzene | 10 | U | 250 | 267 | | ug/L | | 107 | 78 - 120 | | |
| 1,2,4-Trichlorobenzene | 10 | U | 250 | 229 | | ug/L | | 92 | 79 - 122 | | |
| 1,2,4-Trimethylbenzene | 10 | U | 250 | 253 | | ug/L | | 101 | 76 - 121 | | |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 250 | 244 | | ug/L | | 98 | 56 - 134 | | |
| 1,2-Dibromoethane | 10 | U | 250 | 261 | | ug/L | | 105 | 77 - 120 | | |
| 1,2-Dichlorobenzene | 10 | U | 250 | 254 | | ug/L | | 102 | 80 - 124 | | |
| 1,2-Dichloroethane | 10 | U | 250 | 237 | | ug/L | | 95 | 75 - 120 | | |
| 1,2-Dichloropropane | 10 | U | 250 | 271 | | ug/L | | 108 | 76 - 120 | | |
| 1,3,5-Trimethylbenzene | 10 | U | 250 | 263 | | ug/L | | 105 | 77 - 121 | | |
| 1,3-Dichlorobenzene | 10 | U | 250 | 256 | | ug/L | | 102 | 77 - 120 | | |
| 1,4-Dichlorobenzene | 10 | U | 250 | 251 | | ug/L | | 100 | 78 - 124 | | |
| 2-Butanone (MEK) | 100 | U | 1250 | 1270 | | ug/L | | 101 | 57 - 140 | | |
| 2-Hexanone | 50 | U | 1250 | 1240 | | ug/L | | 99 | 65 - 127 | | |
| 4-Methyl-2-pentanone (MIBK) | 50 | U | 1250 | 1250 | | ug/L | | 100 | 71 - 125 | | |
| Acetone | 100 | U | 1250 | 1060 | | ug/L | | 84 | 56 - 142 | | |
| Benzene | 10 | U | 250 | 259 | | ug/L | | 103 | 71 - 124 | | |
| Bromodichloromethane | 10 | U | 250 | 248 | | ug/L | | 99 | 80 - 122 | | |
| Bromoform | 10 | U | 250 | 271 | | ug/L | | 108 | 61 - 132 | | |
| Bromomethane | 10 | U | 250 | 298 | | ug/L | | 119 | 55 - 144 | | |
| Carbon disulfide | 10 | U | 250 | 243 | | ug/L | | 97 | 59 - 134 | | |
| Carbon tetrachloride | 10 | U | 250 | 311 | | ug/L | | 124 | 72 - 134 | | |
| Chlorobenzene | 10 | U | 250 | 267 | | ug/L | | 107 | 80 - 120 | | |
| Chloroethane | 10 | U | 250 | 270 | | ug/L | | 108 | 69 - 136 | | |
| Chloroform | 10 | U | 250 | 259 | | ug/L | | 103 | 73 - 127 | | |
| Chloromethane | 10 | U | 250 | 229 | | ug/L | | 92 | 68 - 124 | | |
| cis-1,2-Dichloroethene | 470 | | 250 | 680 | | ug/L | | 83 | 74 - 124 | | |
| cis-1,3-Dichloropropene | 10 | U | 250 | 259 | | ug/L | | 103 | 74 - 124 | | |
| Cyclohexane | 10 | U | 250 | 250 | | ug/L | | 100 | 59 - 135 | | |
| Dibromochloromethane | 10 | U * | 250 | 309 | | ug/L | | 124 | 75 - 125 | | |
| Dichlorodifluoromethane | 10 | U | 250 | 225 | | ug/L | | 90 | 59 - 135 | | |
| Ethylbenzene | 10 | U | 250 | 259 | | ug/L | | 104 | 77 - 123 | | |
| Isopropylbenzene | 10 | U | 250 | 250 | | ug/L | | 100 | 77 - 122 | | |
| Methyl acetate | 25 | U | 500 | 453 | | ug/L | | 91 | 74 - 133 | | |
| Methyl tert-butyl ether | 10 | U | 250 | 259 | | ug/L | | 104 | 77 - 120 | | |
| Methylcyclohexane | 10 | U | 250 | 250 | | ug/L | | 100 | 68 - 134 | | |
| Methylene Chloride | 10 | U | 250 | 259 | | ug/L | | 104 | 75 - 124 | | |
| Styrene | 10 | U | 250 | 259 | | ug/L | | 104 | 80 - 120 | | |
| Tetrachloroethene | 10 | U | 250 | 257 | | ug/L | | 103 | 74 - 122 | | |
| Toluene | 10 | U | 250 | 262 | | ug/L | | 105 | 80 - 122 | | |
| trans-1,2-Dichloroethene | 10 | U | 250 | 264 | | ug/L | | 106 | 73 - 127 | | |
| trans-1,3-Dichloropropene | 10 | U | 250 | 254 | | ug/L | | 102 | 80 - 120 | | |
| Trichloroethene | 150 | | 250 | 400 | | ug/L | | 99 | 74 - 123 | | |
| Trichlorofluoromethane | 10 | U | 250 | 281 | | ug/L | | 113 | 62 - 150 | | |
| Vinyl chloride | 100 | | 250 | 354 | | ug/L | | 101 | 65 - 133 | | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: 480-142551-32 MS

Matrix: Water

Analysis Batch: 437800

Client Sample ID: 4009-29S

Prep Type: Total/NA

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 106 | | 75 - 123 |
| Toluene-d8 (Surr) | 101 | | 80 - 120 |

Lab Sample ID: 480-142551-32 MSD

Matrix: Water

Analysis Batch: 437800

Client Sample ID: 4009-29S

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | Limits | RPD | RPD Limit |
|---------------------------------------|---------------|------------------|-------------|------------|---------------|------|-----|----------|--------|-----|-----------|
| | Result | Qualifier | Added | Result | Qualifier | Unit | D | %Rec | Limits | RPD | Limit |
| 1,1,1-Trichloroethane | 960 | | 250 | 1110 | E * | ug/L | 62 | 73 - 126 | 3 | 15 | |
| 1,1,2,2-Tetrachloroethane | 10 | U | 250 | 263 | | ug/L | 105 | 76 - 120 | 3 | 15 | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 5.0 | J | 250 | 265 | | ug/L | 104 | 61 - 148 | 5 | 20 | |
| 1,1,2-Trichloroethane | 10 | U | 250 | 261 | | ug/L | 104 | 76 - 122 | 2 | 15 | |
| 1,1-Dichloroethane | 90 | | 250 | 352 | | ug/L | 105 | 77 - 120 | 3 | 20 | |
| 1,1-Dichloroethene | 74 | | 250 | 340 | | ug/L | 106 | 66 - 127 | 1 | 16 | |
| 1,2,3-Trimethylbenzene | 10 | U | 250 | 279 | | ug/L | 112 | 78 - 120 | 5 | 20 | |
| 1,2,4-Trichlorobenzene | 10 | U | 250 | 234 | | ug/L | 94 | 79 - 122 | 2 | 20 | |
| 1,2,4-Trimethylbenzene | 10 | U | 250 | 257 | | ug/L | 103 | 76 - 121 | 2 | 20 | |
| 1,2-Dibromo-3-Chloropropane | 10 | U | 250 | 251 | | ug/L | 100 | 56 - 134 | 3 | 15 | |
| 1,2-Dibromoethane | 10 | U | 250 | 278 | | ug/L | 111 | 77 - 120 | 6 | 15 | |
| 1,2-Dichlorobenzene | 10 | U | 250 | 258 | | ug/L | 103 | 80 - 124 | 1 | 20 | |
| 1,2-Dichloroethane | 10 | U | 250 | 240 | | ug/L | 96 | 75 - 120 | 1 | 20 | |
| 1,2-Dichloropropene | 10 | U | 250 | 271 | | ug/L | 109 | 76 - 120 | 0 | 20 | |
| 1,3,5-Trimethylbenzene | 10 | U | 250 | 266 | | ug/L | 106 | 77 - 121 | 1 | 20 | |
| 1,3-Dichlorobenzene | 10 | U | 250 | 260 | | ug/L | 104 | 77 - 120 | 2 | 20 | |
| 1,4-Dichlorobenzene | 10 | U | 250 | 251 | | ug/L | 101 | 78 - 124 | 0 | 20 | |
| 2-Butanone (MEK) | 100 | U | 1250 | 1240 | | ug/L | 99 | 57 - 140 | 2 | 20 | |
| 2-Hexanone | 50 | U | 1250 | 1300 | | ug/L | 104 | 65 - 127 | 5 | 15 | |
| 4-Methyl-2-pentanone (MIBK) | 50 | U | 1250 | 1300 | | ug/L | 104 | 71 - 125 | 4 | 35 | |
| Acetone | 100 | U | 1250 | 1050 | | ug/L | 84 | 56 - 142 | 0 | 15 | |
| Benzene | 10 | U | 250 | 253 | | ug/L | 101 | 71 - 124 | 2 | 13 | |
| Bromodichloromethane | 10 | U | 250 | 252 | | ug/L | 101 | 80 - 122 | 2 | 15 | |
| Bromoform | 10 | U | 250 | 280 | | ug/L | 112 | 61 - 132 | 3 | 15 | |
| Bromomethane | 10 | U | 250 | 298 | | ug/L | 119 | 55 - 144 | 0 | 15 | |
| Carbon disulfide | 10 | U | 250 | 241 | | ug/L | 96 | 59 - 134 | 1 | 15 | |
| Carbon tetrachloride | 10 | U | 250 | 293 | | ug/L | 117 | 72 - 134 | 6 | 15 | |
| Chlorobenzene | 10 | U | 250 | 271 | | ug/L | 108 | 80 - 120 | 2 | 25 | |
| Chloroethane | 10 | U | 250 | 259 | | ug/L | 103 | 69 - 136 | 4 | 15 | |
| Chloroform | 10 | U | 250 | 249 | | ug/L | 100 | 73 - 127 | 4 | 20 | |
| Chloromethane | 10 | U | 250 | 222 | | ug/L | 89 | 68 - 124 | 3 | 15 | |
| cis-1,2-Dichloroethene | 470 | | 250 | 654 * | | ug/L | 72 | 74 - 124 | 4 | 15 | |
| cis-1,3-Dichloropropene | 10 | U | 250 | 254 | | ug/L | 102 | 74 - 124 | 2 | 15 | |
| Cyclohexane | 10 | U | 250 | 238 | | ug/L | 95 | 59 - 135 | 5 | 20 | |
| Dibromochloromethane | 10 | U * | 250 | 314 * | | ug/L | 126 | 75 - 125 | 1 | 15 | |
| Dichlorodifluoromethane | 10 | U | 250 | 228 | | ug/L | 91 | 59 - 135 | 1 | 20 | |
| Ethylbenzene | 10 | U | 250 | 263 | | ug/L | 105 | 77 - 123 | 1 | 15 | |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

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

Lab Sample ID: 480-142551-32 MSD

Matrix: Water

Analysis Batch: 437800

Client Sample ID: 4009-29S

Prep Type: Total/NA

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | Limits | RPD | RPD |
|---------------------------|--------|-----------|-------|--------|-----------|------|---|------|----------|-----|-----|
| | Result | Qualifier | Added | Result | Qualifier | | | | | | |
| Isopropylbenzene | 10 | U | 250 | 255 | | ug/L | | 102 | 77 - 122 | 2 | 20 |
| Methyl acetate | 25 | U | 500 | 448 | | ug/L | | 90 | 74 - 133 | 1 | 20 |
| Methyl tert-butyl ether | 10 | U | 250 | 269 | | ug/L | | 108 | 77 - 120 | 4 | 37 |
| Methylcyclohexane | 10 | U | 250 | 250 | | ug/L | | 100 | 68 - 134 | 0 | 20 |
| Methylene Chloride | 10 | U | 250 | 262 | | ug/L | | 105 | 75 - 124 | 1 | 15 |
| Styrene | 10 | U | 250 | 263 | | ug/L | | 105 | 80 - 120 | 2 | 20 |
| Tetrachloroethene | 10 | U | 250 | 265 | | ug/L | | 106 | 74 - 122 | 3 | 20 |
| Toluene | 10 | U | 250 | 270 | | ug/L | | 108 | 80 - 122 | 3 | 15 |
| trans-1,2-Dichloroethene | 10 | U | 250 | 269 | | ug/L | | 108 | 73 - 127 | 2 | 20 |
| trans-1,3-Dichloropropene | 10 | U | 250 | 257 | | ug/L | | 103 | 80 - 120 | 1 | 15 |
| Trichloroethene | 150 | | 250 | 381 | | ug/L | | 91 | 74 - 123 | 5 | 16 |
| Trichlorofluoromethane | 10 | U | 250 | 277 | | ug/L | | 111 | 62 - 150 | 1 | 20 |
| Vinyl chloride | 100 | | 250 | 346 | | ug/L | | 98 | 65 - 133 | 2 | 15 |

MSD MSD

| Surrogate | MSD | MSD | Limits |
|------------------------------|------------------|------------------|---------------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 77 - 120 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 |
| Dibromofluoromethane (Surr) | 104 | | 75 - 123 |
| Toluene-d8 (Surr) | 106 | | 80 - 120 |

QC Association Summary

Client: ARCADIS U.S. Inc

Project/Site: NYSDEC-Standby VESTAL

TestAmerica Job ID: 480-142551-1

GC/MS VOA

Analysis Batch: 437600

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-142551-1 | 4009-29I | Total/NA | Water | 8260C | 5 |
| 480-142551-2 | 4009-29D | Total/NA | Water | 8260C | 5 |
| 480-142551-3 | 4009-30 | Total/NA | Water | 8260C | 5 |
| 480-142551-4 | 4009-30A | Total/NA | Water | 8260C | 6 |
| 480-142551-5 | 4009-11A | Total/NA | Water | 8260C | 7 |
| 480-142551-7 | DUP2 | Total/NA | Water | 8260C | 7 |
| 480-142551-8 | 4009-26 | Total/NA | Water | 8260C | 8 |
| 480-142551-9 | TRIP BLANK1 | Total/NA | Water | 8260C | 8 |
| 480-142551-10 | TRIP BLANK 2 | Total/NA | Water | 8260C | 9 |
| 480-142551-11 | 4009-7 | Total/NA | Water | 8260C | 9 |
| 480-142551-12 | 4009-8 | Total/NA | Water | 8260C | 10 |
| 480-142551-13 | WELL 1-1 | Total/NA | Water | 8260C | 10 |
| 480-142551-14 | 4009-9 | Total/NA | Water | 8260C | 11 |
| 480-142551-15 | 4009-10 | Total/NA | Water | 8260C | 11 |
| 480-142551-16 | 4009-11 | Total/NA | Water | 8260C | 12 |
| MB 480-437600/7 | Method Blank | Total/NA | Water | 8260C | 12 |
| LCS 480-437600/5 | Lab Control Sample | Total/NA | Water | 8260C | 13 |
| 480-142551-12 MS | 4009-8 | Total/NA | Water | 8260C | 13 |
| 480-142551-12 MSD | 4009-8 | Total/NA | Water | 8260C | 14 |

Analysis Batch: 437800

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-142551-6 | DUP1 | Total/NA | Water | 8260C | 15 |
| 480-142551-17 | 4009-12 | Total/NA | Water | 8260C | 15 |
| 480-142551-18 | 4009-13 | Total/NA | Water | 8260C | 15 |
| 480-142551-19 | 4009-13A | Total/NA | Water | 8260C | 15 |
| 480-142551-20 | 4009-14 | Total/NA | Water | 8260C | 15 |
| 480-142551-21 | 4009-15 | Total/NA | Water | 8260C | 15 |
| 480-142551-22 | 4009-16 | Total/NA | Water | 8260C | 15 |
| 480-142551-23 | 4009-16A | Total/NA | Water | 8260C | 15 |
| 480-142551-24 | 4009-18 | Total/NA | Water | 8260C | 15 |
| 480-142551-25 | 4009-19 | Total/NA | Water | 8260C | 15 |
| 480-142551-26 | 4009-21 | Total/NA | Water | 8260C | 15 |
| 480-142551-27 | 4009-22 | Total/NA | Water | 8260C | 15 |
| 480-142551-28 | 4009-27S | Total/NA | Water | 8260C | 15 |
| 480-142551-29 | 4009-27I | Total/NA | Water | 8260C | 15 |
| 480-142551-30 | 4009-27D | Total/NA | Water | 8260C | 15 |
| 480-142551-31 | 4009-28 | Total/NA | Water | 8260C | 15 |
| 480-142551-32 | 4009-29S | Total/NA | Water | 8260C | 15 |
| MB 480-437800/7 | Method Blank | Total/NA | Water | 8260C | 15 |
| LCS 480-437800/5 | Lab Control Sample | Total/NA | Water | 8260C | 15 |
| 480-142551-32 MS | 4009-29S | Total/NA | Water | 8260C | 15 |
| 480-142551-32 MSD | 4009-29S | Total/NA | Water | 8260C | 15 |

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-29I

Date Collected: 09/27/18 10:25

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-1

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 20 | 437600 | 10/04/18 11:40 | NMC | TAL BUF |

Client Sample ID: 4009-29D

Date Collected: 09/27/18 10:30

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-2

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 5 | 437600 | 10/04/18 12:06 | NMC | TAL BUF |

Client Sample ID: 4009-30

Date Collected: 09/27/18 09:35

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-3

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 12:33 | NMC | TAL BUF |

Client Sample ID: 4009-30A

Date Collected: 09/27/18 09:40

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-4

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 13:00 | NMC | TAL BUF |

Client Sample ID: 4009-11A

Date Collected: 09/27/18 11:45

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-5

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 13:27 | NMC | TAL BUF |

Client Sample ID: DUP1

Date Collected: 09/27/18 00:00

Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-6

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 5 | 437800 | 10/04/18 22:45 | RJF | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: DUP2

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-7

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 40 | 437600 | 10/04/18 14:21 | NMC | TAL BUF |

Client Sample ID: 4009-26

Date Collected: 09/27/18 12:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-8

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 5 | 437600 | 10/04/18 14:47 | NMC | TAL BUF |

Client Sample ID: TRIP BLANK1

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-9

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 15:15 | NMC | TAL BUF |

Client Sample ID: TRIP BLANK 2

Date Collected: 09/27/18 00:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-10

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 15:42 | NMC | TAL BUF |

Client Sample ID: 4009-7

Date Collected: 09/27/18 12:10
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-11

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 16:09 | NMC | TAL BUF |

Client Sample ID: 4009-8

Date Collected: 09/27/18 12:05
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-12

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 40 | 437600 | 10/04/18 16:36 | NMC | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: WELL 1-1

Date Collected: 09/27/18 08:25
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-13

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 4 | 437600 | 10/04/18 17:03 | NMC | TAL BUF |

Client Sample ID: 4009-9

Date Collected: 09/27/18 11:35
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-14

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 17:30 | NMC | TAL BUF |

Client Sample ID: 4009-10

Date Collected: 09/27/18 11:40
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-15

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 17:56 | NMC | TAL BUF |

Client Sample ID: 4009-11

Date Collected: 09/27/18 11:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-16

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437600 | 10/04/18 18:24 | NMC | TAL BUF |

Client Sample ID: 4009-12

Date Collected: 09/27/18 10:10
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-17

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/04/18 23:13 | RJF | TAL BUF |

Client Sample ID: 4009-13

Date Collected: 09/27/18 10:55
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-18

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/04/18 23:39 | RJF | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-13A

Date Collected: 09/27/18 11:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-19

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 00:07 | RJF | TAL BUF |

Client Sample ID: 4009-14

Date Collected: 09/27/18 08:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-20

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 00:34 | RJF | TAL BUF |

Client Sample ID: 4009-15

Date Collected: 09/27/18 09:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-21

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 01:00 | RJF | TAL BUF |

Client Sample ID: 4009-16

Date Collected: 09/27/18 09:25
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-22

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 01:27 | RJF | TAL BUF |

Client Sample ID: 4009-16A

Date Collected: 09/27/18 09:30
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-23

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 01:54 | RJF | TAL BUF |

Client Sample ID: 4009-18

Date Collected: 09/27/18 09:00
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-24

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 02:21 | RJF | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-19

Date Collected: 09/27/18 09:15
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-25

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 02:48 | RJF | TAL BUF |

Client Sample ID: 4009-21

Date Collected: 09/27/18 09:10
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-26

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 03:15 | RJF | TAL BUF |

Client Sample ID: 4009-22

Date Collected: 09/27/18 08:45
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-27

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 03:42 | RJF | TAL BUF |

Client Sample ID: 4009-27S

Date Collected: 09/27/18 10:40
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-28

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 2 | 437800 | 10/05/18 04:09 | RJF | TAL BUF |

Client Sample ID: 4009-27I

Date Collected: 09/27/18 10:45
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-29

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 04:36 | RJF | TAL BUF |

Client Sample ID: 4009-27D

Date Collected: 09/27/18 10:50
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-30

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 05:03 | RJF | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

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

TestAmerica Job ID: 480-142551-1

Client Sample ID: 4009-28

Date Collected: 09/27/18 08:35
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-31

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 437800 | 10/05/18 05:29 | RJF | TAL BUF |

Client Sample ID: 4009-29S

Date Collected: 09/27/18 10:20
Date Received: 09/28/18 01:30

Lab Sample ID: 480-142551-32

Matrix: Water

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 10 | 437800 | 10/05/18 05:56 | RJF | 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: 480-142551-1

Laboratory: TestAmerica Buffalo

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

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

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

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

Method Summary

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

TestAmerica Job ID: 480-142551-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

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

TestAmerica Job ID: 480-142551-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------|--------|----------------|----------------|
| 480-142551-1 | 4009-29I | Water | 09/27/18 10:25 | 09/28/18 01:30 |
| 480-142551-2 | 4009-29D | Water | 09/27/18 10:30 | 09/28/18 01:30 |
| 480-142551-3 | 4009-30 | Water | 09/27/18 09:35 | 09/28/18 01:30 |
| 480-142551-4 | 4009-30A | Water | 09/27/18 09:40 | 09/28/18 01:30 |
| 480-142551-5 | 4009-11A | Water | 09/27/18 11:45 | 09/28/18 01:30 |
| 480-142551-6 | DUP1 | Water | 09/27/18 00:00 | 09/28/18 01:30 |
| 480-142551-7 | DUP2 | Water | 09/27/18 00:00 | 09/28/18 01:30 |
| 480-142551-8 | 4009-26 | Water | 09/27/18 12:00 | 09/28/18 01:30 |
| 480-142551-9 | TRIP BLANK1 | Water | 09/27/18 00:00 | 09/28/18 01:30 |
| 480-142551-10 | TRIP BLANK 2 | Water | 09/27/18 00:00 | 09/28/18 01:30 |
| 480-142551-11 | 4009-7 | Water | 09/27/18 12:10 | 09/28/18 01:30 |
| 480-142551-12 | 4009-8 | Water | 09/27/18 12:05 | 09/28/18 01:30 |
| 480-142551-13 | WELL 1-1 | Water | 09/27/18 08:25 | 09/28/18 01:30 |
| 480-142551-14 | 4009-9 | Water | 09/27/18 11:35 | 09/28/18 01:30 |
| 480-142551-15 | 4009-10 | Water | 09/27/18 11:40 | 09/28/18 01:30 |
| 480-142551-16 | 4009-11 | Water | 09/27/18 11:50 | 09/28/18 01:30 |
| 480-142551-17 | 4009-12 | Water | 09/27/18 10:10 | 09/28/18 01:30 |
| 480-142551-18 | 4009-13 | Water | 09/27/18 10:55 | 09/28/18 01:30 |
| 480-142551-19 | 4009-13A | Water | 09/27/18 11:00 | 09/28/18 01:30 |
| 480-142551-20 | 4009-14 | Water | 09/27/18 08:50 | 09/28/18 01:30 |
| 480-142551-21 | 4009-15 | Water | 09/27/18 09:50 | 09/28/18 01:30 |
| 480-142551-22 | 4009-16 | Water | 09/27/18 09:25 | 09/28/18 01:30 |
| 480-142551-23 | 4009-16A | Water | 09/27/18 09:30 | 09/28/18 01:30 |
| 480-142551-24 | 4009-18 | Water | 09/27/18 09:00 | 09/28/18 01:30 |
| 480-142551-25 | 4009-19 | Water | 09/27/18 09:15 | 09/28/18 01:30 |
| 480-142551-26 | 4009-21 | Water | 09/27/18 09:10 | 09/28/18 01:30 |
| 480-142551-27 | 4009-22 | Water | 09/27/18 08:45 | 09/28/18 01:30 |
| 480-142551-28 | 4009-27S | Water | 09/27/18 10:40 | 09/28/18 01:30 |
| 480-142551-29 | 4009-27I | Water | 09/27/18 10:45 | 09/28/18 01:30 |
| 480-142551-30 | 4009-27D | Water | 09/27/18 10:50 | 09/28/18 01:30 |
| 480-142551-31 | 4009-28 | Water | 09/27/18 08:35 | 09/28/18 01:30 |
| 480-142551-32 | 4009-29S | Water | 09/27/18 10:20 | 09/28/18 01:30 |

Chain of Custody Record



| Client Information | | Sampler: <i>Aubrey Thomas</i> | Lab PM: Stone, Judy L | Carrier Tracking No(s): | COC No: 480-117976-27171.3 | | | | | | |
|---|--|--------------------------------|---------------------------------------|---|---|---|-------------------------|------------------------------|---------------------------|----------------------------|--|
| Client Contact: Ms. Katie Bidwell | | Phone: (518) 250-7311 | E-Mail: judy.stone@testamericainc.com | | Page: Page 3 of 3 | | | | | | |
| Company: ARCADIS U.S. Inc. | | | | | Job #: 480-142551 COC | | | | | | |
| Address: 855 Route 146 Suite 210 | | Due Date Requested: | | Analysis Requested | | | | | | | |
| City: Clifton Park | | TAT Requested (days): Standard | | | | | | | | | |
| State, Zip: NY, 12065 | | | | | | | | | | | |
| Phone: 518-250-7300(Tel) | | PO #: Project 00266401.0000 | | | | | | | | | |
| Email: katie.bidwell@arcadis-us.com | | WO #: Contract D007618 | | | | | | | | | |
| Project Name: NYSDEC-Standby VESTAL | | Project #: 48005198 | | | | | | | | | |
| Site: Vesta Water Supply | | SSOW#: | | | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, D=dust/filter, E=tissue, A=air) | Field Filtered Samples (yes/no) | Perform MS/MSD (yes/no) | Perform TDL (if yes w/TMB's) | Total Number of Locations | Special Instructions/Note: | |
| 4009-29I | | 9-27-18 | 1025 | G | Water | X | X | | 3 | | |
| 4009-29D | | | 1030 | | Water | | | | 2 | | |
| 4009-30 | | | 0935 | | Water | | | | 2 | | |
| 4009-30A | | | 0940 | | Water | | | | 2 | | |
| 4009-11A | | | 1145 | | Water | | | | 2 | | |
| DUP1 | | | — | | Water | | | | 2 | | |
| DUP2 | | | — | | Water | | | | 2 | | |
| 4009-26 | | ↓ | 1200 | ↓ | Water | ✓ | ↓ | ↓ | 3 | | |
| Trip Blank 1 | | — | — | | Water | N | N | X | 2 | Trip Blank set per cooler | |
| End Blank 2 | | — | — | | Water | N | N | X | 2 | | |
| <i>Craig</i> 9-27-2018 | | | | | | | | | | | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <i>Craig</i> | | Date/Time: 9-27-2018 1500 | Company: Arredo | Received by: <i>Ralp Zache</i> | Date/Time: 9-27-18 1500 | Company: TA | | | | | |
| Relinquished by: <i>Ralp Zache</i> | | Date/Time: 9-27-18 1800 | Company: TA | Received by: <i>John H.</i> | Date/Time: 9-28-18 0130 | Company: TA/B | | | | | |
| Relinquished by: | | Date/Time: | Company: | Received by: | Date/Time: | Company: | | | | | |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: | | 11°C #4 | | | | | |

Chain of Custody Record

| | | | | | | | | | |
|---|--|-----------------------------|------------------|--|---|---|----------------------------|------------------------------|---|
| Client Information | | Sampler: <i>Judy Thomas</i> | | Lab PM: Stone, Judy L | | Carrier Tracking No(s): | | COC No: 480-117976-27171.1 | |
| Client Contact: Ms. Katie Bidwell | | Phone: (518) 250-7311 | | E-Mail: judy.stone@testamericaninc.com | | | | | |
| Company: ARCADIS U.S. Inc. | | | | | | | | Job #: | |
| Address: 855 Route 146 Suite 210 | | Due Date Requested: | | | | | | | |
| City: Clifton Park | | TAT Requested (days): | | Standard | | | | | |
| State, Zip: NY, 12065 | | | | | | | | | |
| Phone: 518-250-7300(Tel) | | PO #: | | Project 00266401.0000 | | | | | |
| Email: katie.bidwell@arcadis-us.com | | WO #: | | Contract D007618 | | | | | |
| Project Name: NYSDEC-Standby VESTAL | | Project #: | | 48005198 | | | | | |
| Site: Vestal Water Supply | | SSOW#: | | | | | | | |
| | | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=wastewater, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Perform MS/MSD (Yes or No) | Total Number of Contaminants | Preservation Codes: |
| | | | | | | X | A | | 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) Other: |
| | | | | | | | | | Special Instructions/Note: |
| Sample Identification | | | | | | | | | |
| 4009-7 | | 9-27-18 | 1210 | G | Water | N | NX | | |
| 4009-8 | | | 1205 | | Water | | | | |
| Well 1-2A Well 1-1 | | | 0825 | | Water | | | | |
| 4009-9 | | | 1135 | | Water | | | | |
| 4009-10 | | | 1140 | | Water | | | | |
| 4009-11 | | | 1150 | | Water | | | | |
| 4009-12 | | | 1010 | | Water | | | | |
| 4009-13 | | | 1055 | | Water | | | | |
| 4009-13A | | | 1100 | | Water | | | | |
| 4009-14 | | | 0850 | | Water | | | | |
| 4009-15 | | ↓ | 0950 | ↓ | Water | ↓ | ↓ | ↓ | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <i>Judy Thomas</i> | | Date/Time: 9-27-2018 1500 | Company: Arcadis | | Received by: <i>Judy Thomas</i> | | Date/Time: 9-27-18 1500 | | Company: TA |
| Relinquished by: <i>Judy Thomas</i> | | Date/Time: 9-27-18 1800 | Company: TA | | Received by: <i>Judy Thomas</i> | | Date/Time: 9-28-18 0130 | | Company: TA |
| Relinquished by: | | Date/Time: | Company: | | Received by: | | Date/Time: | | Company: |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | Cooler Temperature(s) °C and Other Remarks: 1.1°C #4 | | | | | |

Chain of Custody Record

| | | | | | | | | | | |
|---|--|--------------------------------|---------------------------------------|---|--|---|---------------------------------------|--|-------------------------------|----------------------------|
| Client Information | | Sampler: <i>Aubrey Thomas</i> | Lab PM: Stone, Judy L | Carrier Tracking No(s). | COC No: 480-117976-27171.2 | | | | | |
| Client Contact: Ms. Katie Bidwell | | Phone: (518) 250-7311 | E-Mail: judy.stone@testamericainc.com | | Page: Page 2 of # <i>3</i> | | | | | |
| Company: ARCADIS U.S. Inc. | | Analysis Requested | | | | Job #: | | | | |
| Address: 855 Route 146 Suite 210 | | Due Date Requested: | | | | Preservation Codes: | | | | |
| City: Clifton Park | | TAT Requested (days): Standard | | | | 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) | | | | |
| State, Zip: NY, 12065 | | | | | | | | | | |
| Phone: 518-250-7300(Tel) | | PO #: Project 00266401.0000 | | | | | | | | |
| Email: katie.bidwell@arcadis-us.com | | WO #: Contract D007618 | | | | | | | | |
| Project Name: NYSDEC-Standby VESTAL | | Project #: 48005198 | | | | | | | | |
| Site: <i>Vestal Water Supply</i> | | SSOW#: | | | | | | | | |
| Sample Identification | | Sample Date | Sample Time | Sample Type (C=comp, G=grab, BT=Tissue, Ar=Air) | Matrix (W=water, S=solid, G=wastebtl, BT=tissue, Ar=air) | Field Filtered Sample (Yes/No) | Permeable Membrane (Yes/No) | Project ID: 00266401.0000 | Total Number of containers | Special Instructions/Note: |
| 4009-16 | | 9-27-18 | 0925 | G | Water | <input checked="" type="checkbox"/> A | <input checked="" type="checkbox"/> N | <input checked="" type="checkbox"/> NX | <i>3</i> | |
| 4009-16A | | | 0930 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-18 | | | 0900 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-19 | | | 0915 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-21 | | | 0910 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-22 | | | 0845 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-27S | | | 1040 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-27I | | | 1045 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-27D | | | 1050 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-28 | | | 0835 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| 4009-29S | | | 1020 | | Water | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | | | |
| Possible Hazard Identification | | | | | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) | | | | |
| <input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological | | | | | | <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> 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: <i>Aubrey Thomas</i> | | Date/Time: 9-27-2018 1500 | Company: Arcadis | | | Received by: <i>Ruthie</i> | | Date/Time: 9-27-18 1500 | Company: PR | |
| Relinquished by: <i>Kat Zoch</i> | | Date/Time: 9-27-18 1800 | Company: TA | | | Received by: <i>Ruthie</i> | | Date/Time: 9/28/18 0800 | Company: VAS | |
| Relinquished by: | | Date/Time: | Company: | | | Received by: | | Date/Time: | Company: | |
| Custody Seals Intact: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No | | Custody Seal No.: | | | Cooler Temperature(s) °C and Other Remarks: | | | | 1.1°C <i>#3 #4</i> 9/28/18 | |

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-142551-1

Login Number: 142551

List Source: TestAmerica Buffalo

List Number: 1

Creator: Harper, Marcus D

| 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 | |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 07/17/2018
Reported: 07/26/2018

Analytical Testing Parameters

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-2A Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:41 |
| Lab Sample ID: | J8G1425-01 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Bromo-chloromethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |

Microbac Laboratories, Inc.

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Page 1 of 17



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| Client Sample ID: | 1-2A Raw | Collected By: | Julian Motola | | | | | |
|---|----------------|------------------|-----------------|-------|------|----------|---------------|---------|
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:41 | | | | | |
| Lab Sample ID: | J8G1425-01 | | | | | | | |
| Volatile Organic Compounds - GC/MS | | | | | | | | |
| | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 07/23/18 1936 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 07/23/18 1936 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 1936 | RJH |
| Surrogate: 4-Bromofluorobenzene | 87.4 | Limit: 70-130 | | % Rec | | | 07/23/18 1936 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 80.4 | Limit: 70-130 | | % Rec | | | 07/23/18 1936 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-2A Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:43 |
| Lab Sample ID: | J8G1425-02 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Bromo(chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-2A Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:43 |
| Lab Sample ID: | J8G1425-02 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 07/23/18 2004 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 07/23/18 2004 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2004 | RJH |
| Surrogate: 4-Bromofluorobenzene | 86.2 | Limit: 70-130 | | % Rec | | | 07/23/18 2004 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 79.0 | Limit: 70-130 | | % Rec | | | 07/23/18 2004 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:35 |
| Lab Sample ID: | J8G1425-03 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Bromoform | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:35 |
| Lab Sample ID: | J8G1425-03 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 07/23/18 2031 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 07/23/18 2031 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2031 | RJH |
| Surrogate: 4-Bromofluorobenzene | 84.2 | Limit: 70-130 | | % Rec | | | 07/23/18 2031 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 77.8 | Limit: 70-130 | | % Rec | | | 07/23/18 2031 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-3 Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:37 |
| Lab Sample ID: | J8G1425-04 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Bromo(chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|-----------------|
| Client Sample ID: | 1-3 Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/17/2018 8:37 |
| Lab Sample ID: | J8G1425-04 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 07/23/18 2059 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 07/23/18 2059 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2059 | RJH |
| Surrogate: 4-Bromofluorobenzene | 85.2 | Limit: 70-130 | | % Rec | | | 07/23/18 2059 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 78.8 | Limit: 70-130 | | % Rec | | | 07/23/18 2059 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/16/2018 17:15 |
| Lab Sample ID: | J8G1425-07 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Bromoform | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8G1425

| | | | |
|--------------------------|----------------|-------------------------|------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 07/16/2018 17:15 |
| Lab Sample ID: | J8G1425-07 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 07/23/18 2220 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 07/23/18 2220 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 07/23/18 2220 | RJH |
| Surrogate: 4-Bromofluorobenzene | 82.6 | Limit: 70-130 | | % Rec | | | 07/23/18 2220 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 76.8 | Limit: 70-130 | | % Rec | | | 07/23/18 2220 | RJH |

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

| | |
|---------------|---|
| MCL: | US EPA Maximum Contaminant Level |
| NYVOA: | New York DOH Part 5 Public Water System MCLs |
| RL: | Reporting Limit |
| 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.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 07/26/2018 16:44



Microbac Laboratories, Inc., New York Division

Chain of Custody

J8G1425**TAT 7 days**

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
 Tentatively Scheduled: 7/10/2018
 Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8G1425-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 7/17/18 08:41

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |
| V-40ml Clear vial, HCL | | | B |

Client Sample ID: 1-2A Finished

Lab Sample ID: J8G1425-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 7/17/18 08:43

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|---------------------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | A |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | B |

Client Sample ID: 1-3 Raw

Lab Sample ID: J8G1425-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 7/17/18 08:35

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |
| V-40ml Clear vial, HCL | | | B |

Client Sample ID: 1-3 Finished

Lab Sample ID: J8G1425-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 7/17/18 08:37



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

J8G1425**Town of Vestal**

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
 Tentatively Scheduled: 7/10/2018
 Field Route ID: NY-Route 1 Bing

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|-------------------|---|-----------------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | <u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL | 14.00 days |
| | | | <u>Designator</u> A B |

Client Sample ID: 4-2 Raw**Lab Sample ID: J8G1425-05****Matrix: Drinking Water****Type: Grab****Sampled Date & Time:** 7/17/18 09:08

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|-------------------|---|-----------------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | <u>Container(s)</u> V-40ml Clear vial, HCL V-40ml Clear vial, HCL | 14.00 days |
| | | | <u>Designator</u> A B |

Client Sample ID: 4-2 Finished**Lab Sample ID: J8G1425-06****Matrix: Drinking Water****Type: Grab****Sampled Date & Time:** 7/17/18 09:15

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|-------------------|---|-----------------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | <u>Container(s)</u> V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL | 14.00 days |
| | | | <u>Designator</u> A B |

Client Sample ID: Trip Blank**Lab Sample ID: J8G1425-07****Matrix: Drinking Water****Type: Trip Blank****Sampled Date & Time:** 7/16/18 17:15

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|-------------------|---|------------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | <u>Container(s)</u> V-40ml Clear vial, HCL | 14.00 days |
| | | | <u>Designator</u> A |



Microbac Laboratories, Inc., New York Division
Chain of Custody
J8G1425

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Tentatively Scheduled: 7/10/2018
Field Route ID: NY-Route 1 Bing

| | | |
|---------------------------------------|--------------------------------|---------------------|
| Sampled/Relinquished by: | Date/Time: | Received by: |
| Printed Name: <i>Bethany Robinson</i> | <i>7/19/18</i> <i>15:40</i> | <i>Kayla Conway</i> |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |

As Received at Laboratory: On Ice: Yes / No Temp 2.4 °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 an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Received: 08/27/2018
Reported: 09/04/2018

Analytical Testing Parameters

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-2A Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:20 |
| Lab Sample ID: | J8H2278-01 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Bromo-chloromethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | Q2 | | 09/01/18 0546 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| Client Sample ID: | 1-2A Raw | Collected By: | Julian Motola | | | | | |
|---|----------------|------------------|------------------|-------|------|----------|---------------|---------|
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:20 | | | | | |
| Lab Sample ID: | J8H2278-01 | | | | | | | |
| Volatile Organic Compounds - GC/MS | | | | | | | | |
| | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 09/01/18 0546 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 09/01/18 0546 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0546 | RJH |
| Surrogate: 4-Bromofluorobenzene | 79.2 | Limit: 70-130 | | % Rec | | | 09/01/18 0546 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 79.4 | Limit: 70-130 | | % Rec | | | 09/01/18 0546 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-2A Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:23 |
| Lab Sample ID: | J8H2278-02 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Bromo(chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | Q2 | | 09/01/18 0614 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |

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CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-2A Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:23 |
| Lab Sample ID: | J8H2278-02 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 09/01/18 0614 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 09/01/18 0614 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0614 | RJH |
| Surrogate: 4-Bromofluorobenzene | 76.8 | Limit: 70-130 | | % Rec | | | 09/01/18 0614 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 77.6 | Limit: 70-130 | | % Rec | | | 09/01/18 0614 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 11:24 |
| Lab Sample ID: | J8H2278-03 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Bromoform | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | Q2 | | 09/01/18 0641 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 11:24 |
| Lab Sample ID: | J8H2278-03 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 09/01/18 0641 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 09/01/18 0641 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0641 | RJH |
| Surrogate: 4-Bromofluorobenzene | 74.8 | Limit: 70-130 | | % Rec | | | 09/01/18 0641 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 78.2 | Limit: 70-130 | | % Rec | | | 09/01/18 0641 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-3 Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:32 |
| Lab Sample ID: | J8H2278-04 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Bromo(chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | Q2 | | 09/01/18 0708 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | 1-3 Finished | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/27/2018 10:32 |
| Lab Sample ID: | J8H2278-04 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Trichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 09/01/18 0708 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 09/01/18 0708 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0708 | RJH |
| Surrogate: 4-Bromofluorobenzene | 72.6 | Limit: 70-130 | | % Rec | | | 09/01/18 0708 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 75.4 | Limit: 70-130 | | % Rec | | | 09/01/18 0708 | RJH |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|-------------------|----------------|------------------|------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/24/2018 13:30 |
| Lab Sample ID: | J8H2278-07 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|--|--------|----------|-------|-------|------|----------|---------------|---------|
| Method: EPA 524.2/EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Bromobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Bromo(chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| n-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| tert-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| sec-Butylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Carbon tetrachloride | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Chlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Chloroethane (Ethyl chloride) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 2-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 4-Chlorotoluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Dibromomethane (Methylene bromide) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,4-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,3-Dichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Dichlorodifluoromethane (Freon-12) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2-Dichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| cis-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| trans-1,2-Dichloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 2,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,3-Dichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| cis-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| trans-1,3-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1-Dichloropropene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Ethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Hexachlorobutadiene | <0.500 | 5 NYVOA | 0.500 | ug/L | Q2 | | 09/01/18 0830 | RJH |
| Isopropylbenzene (Cumene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Methyl bromide (Bromomethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Methyl tert-butyl ether (MTBE) | <0.500 | 10 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Methyl chloride (Chloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Methylene chloride (Dichloromethane) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Naphthalene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| n-Propylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Styrene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1,2,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1,1,2-Tetrachloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Tetrachloroethene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Toluene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2,4-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8H2278

| | | | |
|--------------------------|----------------|-------------------------|------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola |
| Sample Matrix: | Drinking Water | Collection Date: | 08/24/2018 13:30 |
| Lab Sample ID: | J8H2278-07 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|-------|-------|------|----------|---------------|---------|
| 1,2,3-Trichlorobenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1,2-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,1,1-Trichloroethane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Trichloroethylene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Trichlorofluoromethane (Freon 11) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2,3-Trichloropropane | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,3,5-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| 1,2,4-Trimethylbenzene | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Vinyl chloride | <0.500 | 2 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| m,p-Xylene | <1.00 | 5 NYVOA | 1.00 | ug/L | Y | | 09/01/18 0830 | RJH |
| o-Xylene | <0.500 | 5 NYVOA | 0.500 | ug/L | Y | | 09/01/18 0830 | RJH |
| Xylenes (total) | <0.500 | 5 NYVOA | 0.500 | ug/L | | | 09/01/18 0830 | RJH |
| Surrogate: 4-Bromofluorobenzene | 73.0 | Limit: 70-130 | | % Rec | | | 09/01/18 0830 | RJH |
| Surrogate: 1,2-Dichlorobenzene-d4 | 77.2 | Limit: 70-130 | | % Rec | | | 09/01/18 0830 | RJH |

Results in **bold** have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

- MCL:** US EPA Maximum Contaminant Level
- NYVOA:** New York DOH Part 5 Public Water System MCLs
- 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.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 09/04/2018 14:59



Microbac Laboratories, Inc., New York Division

Chain of Custody

J8H2278**TAT 7 days**

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

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

Project / PO Number: N/A
 Tentatively Scheduled: 8/14/2018
 Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8H2278-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:20

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |
| V-40ml Clear vial, HCL | | | B |

Client Sample ID: 1-2A Finished

Lab Sample ID: J8H2278-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:23

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|---------------------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | A |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | B |

Client Sample ID: 1-3 Raw

Lab Sample ID: J8H2278-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:34

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|--------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |
| V-40ml Clear vial, HCL | | | B |

Client Sample ID: 1-3 Finished

Lab Sample ID: J8H2278-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:32



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

J8H2278

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Tentatively Scheduled: 8/14/2018
Field Route ID: NY-Route 1 Bing

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|---------------------------------------|-------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | A |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | B |

Client Sample ID: 4-2 Raw

Lab Sample ID: J8H2278-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:46

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|-------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |
| V-40ml Clear vial, HCL | | | B |

Client Sample ID: 4-2 Finished

Lab Sample ID: J8H2278-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 8/27/18 10:50

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|---------------------------------------|-------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | A |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | B |

Client Sample ID: Trip Blank

Lab Sample ID: J8H2278-07

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 8/24/18 13:30

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|------------------------|-------------------|-------------------------------|-------------------|
| 524.2 VOC NY | EPA 524.2, Rv 4.1 | | 14.00 days |
| <u>Container(s)</u> | | | <u>Designator</u> |
| V-40ml Clear vial, HCL | | | A |

Microbac Laboratories, Inc., New York Division
Chain of Custody**J8H2278****Town of Vestal**

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Tentatively Scheduled: 8/14/2018
Field Route ID: NY-Route 1 Bing

| | | |
|---|-----------------|---------------------|
| Sampled/Relinquished by: | Date/Time: | Received by: |
| Printed Name: Bethany Robinson <i>Bethany</i> <i>8/27/18</i> | 8/27/18 1545 | <i>Kayla Conway</i> |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |

As Received at Laboratory: On Ice: Yes / No Temp 2.1 °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 an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

Town of Vestal

Project Name: Town of Vestal Monthly/Quarterly

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

Project / PO Number: N/A
Received: 09/24/2018
Reported: 10/08/2018

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Sample Matrix: Drinking Water
Lab Sample ID: J8I1522-01

Collected By: Julian Motola-Lab
Collection Date: 09/24/2018 10:02

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|----------|------|-------|------|----------|---------------|---------|
| Method: EPA 524.2, Rv 4.1 | | | | | | | | |
| Benzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Bromobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Bromochloromethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Bromodichloromethane | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Bromoform | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Bromomethane | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| tert-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| sec-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| n-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Carbon tetrachloride | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Chlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Chloroethane (Ethyl chloride) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Chloroform | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Chloromethane | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 2-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 4-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Dibromochloromethane | <0.50 | | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Dibromomethane (Methylene bromide) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,4-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,2-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,3-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Dichlorodifluoromethane (Freon-12) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,2-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,1-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| trans-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| cis-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,1-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,3-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 2,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| 1,1-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| trans-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| cis-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Ethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |
| Hexachlorobutadiene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1708 | RSD |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| Client Sample ID: | 1-2A Raw | Collected By: | Julian Motola-Lab | | |
|---|----------------|------------------|-------------------|-------|------|
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 10:02 | | |
| Lab Sample ID: | J8I1522-01 | | | | |
| Volatile Organic Compounds - GC/MS | | | | | |
| | Result | Limit(s) | RL | Units | Note |
| Isopropylbenzene (Cumene) | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Methyl tert-butyl ether (MTBE) | <0.50 | 10 NYVOA | 0.50 | ug/L | |
| Methylene chloride (Dichloromethane) | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Naphthalene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| n-Propylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Styrene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,1,1,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,1,2,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Tetrachloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Toluene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,2,4-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,2,3-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,1,1-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,1,2-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Trichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Trichlorofluoromethane (Freon 11) | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,2,3-Trichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,2,4-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| 1,3,5-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Vinyl chloride | <0.50 | 2 NYVOA | 0.50 | ug/L | |
| m,p-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| o-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Xylenes (total) | <0.50 | 5 NYVOA | 0.50 | ug/L | |
| Surrogate: 4-Bromofluorobenzene | 86.7 | Limit: 70-130 | % Rec | | |
| Surrogate: 1,2-Dichlorobenzene-d4 | 84.2 | Limit: 70-130 | % Rec | | |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

Client Sample ID: 1-2A Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8I1522-02

Collected By: Julian Motola-Lab
Collection Date: 09/24/2018 10:05

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|--------|----------|------|-------|------|---------------|----------|---------|
| Method: EPA 524.2, Rev 4.1 | | | | | | | | |
| Benzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Bromobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Bromochloromethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Bromodichloromethane | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Bromoform | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Bromomethane | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| tert-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| sec-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| n-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Carbon tetrachloride | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Chlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Chloroethane (Ethyl chloride) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Chloroform | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Chloromethane | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 2-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 4-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Dibromochloromethane | <0.50 | | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Dibromomethane (Methylene bromide) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,4-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,2-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,3-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Dichlorodifluoromethane (Freon-12) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,2-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,1-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| trans-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| cis-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,1-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,3-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 2,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 1,1-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| trans-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| cis-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Ethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Hexachlorobutadiene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Isopropylbenzene (Cumene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Methyl tert-butyl ether (MTBE) | <0.50 | 10 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Methylene chloride (Dichloromethane) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| Naphthalene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |
| n-Propylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/02/18 1732 | RSD | |

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CERTIFICATE OF ANALYSIS

J8I1522

| Client Sample ID: | 1-2A Finished | Collected By: | Julian Motola-Lab | | | | | |
|---|----------------|------------------|-------------------|-------|------|----------|---------------|---------|
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 10:05 | | | | | |
| Lab Sample ID: | J8I1522-02 | | | | | | | |
| Volatile Organic Compounds - GC/MS | | | | | | | | |
| | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
| Styrene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,1,1,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,1,2,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Tetrachloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Toluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,2,4-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,2,3-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,1,1-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,1,2-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Trichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Trichlorofluoromethane (Freon 11) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,2,3-Trichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,2,4-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| 1,3,5-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Vinyl chloride | <0.50 | 2 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| m,p-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| o-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Xylenes (total) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/02/18 1732 | RSD |
| Surrogate: 4-Bromofluorobenzene | 85.2 | Limit: 70-130 | | % Rec | | | 10/02/18 1732 | RSD |
| Surrogate: 1,2-Dichlorobenzene-d4 | 79.1 | Limit: 70-130 | | % Rec | | | 10/02/18 1732 | RSD |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| | | | |
|-------------------|----------------|------------------|-------------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola-Lab |
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 10:10 |
| Lab Sample ID: | J8I1522-03 | | |

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|--------|----------|------|-------|------|---------------|----------|---------|
| Method: EPA 524.2, Rev 4.1 | | | | | | | | |
| Benzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Bromobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Bromochloromethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Bromodichloromethane | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Bromoform | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Bromomethane | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| tert-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| sec-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| n-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Carbon tetrachloride | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Chlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Chloroethane (Ethyl chloride) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Chloroform | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Chloromethane | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 2-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 4-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Dibromochloromethane | <0.50 | | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Dibromomethane (Methylene bromide) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,4-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,2-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,3-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Dichlorodifluoromethane (Freon-12) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,2-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,1-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| trans-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| cis-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,1-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,3-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 2,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 1,1-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| trans-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| cis-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Ethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Hexachlorobutadiene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Isopropylbenzene (Cumene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Methyl tert-butyl ether (MTBE) | <0.50 | 10 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Methylene chloride (Dichloromethane) | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| Naphthalene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |
| n-Propylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | 10/04/18 1032 | RSD | |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| | | | | | |
|---|----------------|------------------|-------------------|------|-------------------|
| Client Sample ID: | 1-3 Raw | Collected By: | Julian Motola-Lab | | |
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 10:10 | | |
| Lab Sample ID: | J8I1522-03 | | | | |
| Volatile Organic Compounds - GC/MS | | | | | |
| Styrene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,1,1,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,1,2,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Tetrachloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Toluene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,2,4-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,2,3-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,1,1-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,1,2-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Trichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Trichlorofluoromethane (Freon 11) | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,2,3-Trichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,2,4-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| 1,3,5-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Vinyl chloride | <0.50 | 2 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| m,p-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| o-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Xylenes (total) | <0.50 | 5 NYVOA | 0.50 | ug/L | 10/04/18 1032 RSD |
| Surrogate: 4-Bromofluorobenzene | 86.1 | Limit: 70-130 | % Rec | | 10/04/18 1032 RSD |
| Surrogate: 1,2-Dichlorobenzene-d4 | 83.0 | Limit: 70-130 | % Rec | | 10/04/18 1032 RSD |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

Client Sample ID: 1-3 Finished
Sample Matrix: Drinking Water
Lab Sample ID: J8I1522-04

Collected By: Julian Motola-Lab
Collection Date: 09/24/2018 10:13

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|--------|----------|------|-------|------|----------|---------------|---------|
| Method: EPA 524.2, Rev 4.1 | | | | | | | | |
| Benzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Bromobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Bromochloromethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Bromodichloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Bromoform | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Bromomethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| tert-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| sec-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| n-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Carbon tetrachloride | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Chlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Chloroethane (Ethyl chloride) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Chloroform | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Chloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 2-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 4-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Dibromochloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Dibromomethane (Methylene bromide) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,4-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,3-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Dichlorodifluoromethane (Freon-12) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| trans-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| cis-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,3-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 2,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| trans-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| cis-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Ethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Hexachlorobutadiene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Isopropylbenzene (Cumene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Methyl tert-butyl ether (MTBE) | <0.50 | 10 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Methylene chloride (Dichloromethane) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Naphthalene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| n-Propylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |

Microbac Laboratories, Inc.

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| Client Sample ID: | 1-3 Finished | Collected By: | Julian Motola-Lab | | | | | |
|---|----------------|------------------|-------------------|-------|------|----------|---------------|---------|
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 10:13 | | | | | |
| Lab Sample ID: | J8I1522-04 | | | | | | | |
| Volatile Organic Compounds - GC/MS | | | | | | | | |
| | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
| Styrene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1,1,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1,2,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Tetrachloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Toluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2,4-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2,3-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1,1-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,1,2-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Trichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Trichlorofluoromethane (Freon 11) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2,3-Trichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,2,4-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| 1,3,5-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Vinyl chloride | <0.50 | 2 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| m,p-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| o-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Xylenes (total) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1056 | RSD |
| Surrogate: 4-Bromofluorobenzene | 88.3 | Limit: 70-130 | | % Rec | | | 10/04/18 1056 | RSD |
| Surrogate: 1,2-Dichlorobenzene-d4 | 83.0 | Limit: 70-130 | | % Rec | | | 10/04/18 1056 | RSD |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| | | | |
|-------------------|----------------|------------------|-------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola-Lab |
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 8:15 |
| Lab Sample ID: | J8I1522-07 | | |

Analyses Subcontracted to: Microbac Laboratories, Inc. - Dayville

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|---|--------|----------|------|-------|------|----------|---------------|---------|
| Method: EPA 524.2, Rev 4.1 | | | | | | | | |
| Benzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Bromobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Bromochloromethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Bromodichloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Bromoform | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Bromomethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| tert-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| sec-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| n-Butylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Carbon tetrachloride | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Chlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Chloroethane (Ethyl chloride) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Chloroform | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Chloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 2-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 4-Chlorotoluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Dibromochloromethane | <0.50 | | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Dibromomethane (Methylene bromide) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,4-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,3-Dichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Dichlorodifluoromethane (Freon-12) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1-Dichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| trans-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| cis-1,2-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1-Dichloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,3-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 2,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2-Dichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| trans-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| cis-1,3-Dichloropropene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Ethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Hexachlorobutadiene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Isopropylbenzene (Cumene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 4-Isopropyltoluene (p-Isopropyltoluene) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Methyl tert-butyl ether (MTBE) | <0.50 | 10 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Methylene chloride (Dichloromethane) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Naphthalene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| n-Propylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |

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Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J8I1522

| | | | |
|--------------------------|----------------|-------------------------|-------------------|
| Client Sample ID: | Trip Blank | Collected By: | Julian Motola-Lab |
| Sample Matrix: | Drinking Water | Collection Date: | 09/24/2018 8:15 |
| Lab Sample ID: | J8I1522-07 | | |

| Volatile Organic Compounds - GC/MS | Result | Limit(s) | RL | Units | Note | Prepared | Analyzed | Analyst |
|------------------------------------|--------|---------------|------|-------|------|----------|---------------|---------|
| Styrene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1,1,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1,2,2-Tetrachloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Tetrachloroethene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Toluene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2,4-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2,3-Trichlorobenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1,1-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,1,2-Trichloroethane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Trichloroethylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Trichlorofluoromethane (Freon 11) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2,3-Trichloropropane | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,2,4-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| 1,3,5-Trimethylbenzene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Vinyl chloride | <0.50 | 2 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| m,p-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| o-Xylene | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Xylenes (total) | <0.50 | 5 NYVOA | 0.50 | ug/L | | | 10/04/18 1207 | RSD |
| Surrogate: 4-Bromofluorobenzene | 88.5 | Limit: 70-130 | | % Rec | | | 10/04/18 1207 | RSD |
| Surrogate: 1,2-Dichlorobenzene-d4 | 86.2 | Limit: 70-130 | | % Rec | | | 10/04/18 1207 | RSD |

Results in bold have exceeded a limit defined for this project. Limits are provided for reference but as regulatory limits change frequently, Microbac Laboratories, Inc. advises the recipient of this report to confirm such limits and units of concentration with the appropriate Federal, state or local authorities before acting on the data.

Definitions

| | |
|---------------|--|
| MCL: | US EPA Maximum Contaminant Level |
| NYVOA: | New York DOH Part 5 Public Water System MCLs |
| RL: | Reporting Limit |

Project Requested Certification(s)

| | |
|--|-------------------------------------|
| Microbac Laboratories, Inc. - Dayville 11549 | New York State Department of Health |
| Microbac Laboratories, Inc., New York Division NY Lab ID No.: 10795 | New York State Department of Health |

Report Comments

Samples were received in proper condition and the reported results conform to applicable accreditation standard unless otherwise noted.

The data and information on this, and other accompanying documents, represents only the sample(s) analyzed. This report is incomplete unless all pages indicated in the footnote are present and an authorized signature is included.

Reviewed and Approved By:

Renee Lantz
Customer Relationship Specialist
Reported: 10/08/2018 16:44



Microbac Laboratories, Inc., New York Division

Chain of Custody

J8I1522**TAT 7 days**

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
 Tentatively Scheduled: 9/11/2018
 Field Route ID: NY-Route 1 Bing

Client Sample ID: 1-2A Raw

Lab Sample ID: J8I1522-01

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/24/18 10:02AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rev 4.1

14.00 days

Container(s)V-40ml Clear vial, HCL
V-40ml Clear vial, HCLDesignatorA
B

Client Sample ID: 1-2A Finished

Lab Sample ID: J8I1522-02

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/24/18 10:05AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rev 4.1

14.00 days

Container(s)V-40ml Clear Vial, Ascorbic Acid, HCL
V-40ml Clear Vial, Ascorbic Acid, HCLDesignatorA
B

Client Sample ID: 1-3 Raw

Lab Sample ID: J8I1522-03

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/29/18 10:10AnalysisMethodField Results/CommentsHold Time

524.2 VOC NY

EPA 524.2, Rev 4.1

14.00 days

Container(s)V-40ml Clear vial, HCL
V-40ml Clear vial, HCLDesignatorA
B

Client Sample ID: 1-3 Finished

Lab Sample ID: J8I1522-04

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/24/18 10:13



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

J8I1522

Town of Vestal

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
Tentatively Scheduled: 9/11/2018
Field Route ID: NY-Route 1 Bing

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|--------------------|--|------------------------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | Container(s) V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL | 14.00 days Designator A B |

Client Sample ID: 4-2 Raw

Lab Sample ID: J8I1522-05

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/24/18 10:28

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|--------------------|--|------------------------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | Container(s) V-40ml Clear vial, HCL V-40ml Clear vial, HCL | 14.00 days Designator A B |

Client Sample ID: 4-2 Finished

Lab Sample ID: J8I1522-06

Matrix: Drinking Water

Type: Grab

Sampled Date & Time: 9/24/18 10:31

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|--------------------|--|------------------------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | Container(s) V-40ml Clear Vial, Ascorbic Acid, HCL V-40ml Clear Vial, Ascorbic Acid, HCL | 14.00 days Designator A B |

Client Sample ID: Trip Blank

Lab Sample ID: J8I1522-07

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 9/24/18 8:15

| <u>Analysis</u> | <u>Method</u> | <u>Field Results/Comments</u> | <u>Hold Time</u> |
|-----------------|--------------------|--|-------------------------------|
| 524.2 VOC NY | EPA 524.2, Rev 4.1 | Container(s) V-40ml Clear vial, HCL | 14.00 days Designator A |



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

J8I522**Town of Vestal**

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

Project Name: Town of Vestal Monthly/Quarterly

Project / PO Number: N/A
 Tentatively Scheduled: 9/11/2018
 Field Route ID: NY-Route 1 Bing

| | | | |
|--|------------------|----------------------|--|
| Sampled/Relinquished by: | Date/Time: | Received by: | |
| Printed Name: Bethany Robinson JTC 9124118 S. Moret | 9/29/18 14:15 | SPN009cf RECEIVED | |
| Relinquished by: | Date/Time: | Received by: | |
| Printed Name: | | Printed Name: | |
| Relinquished by: | Date/Time: | Received by: | |
| Printed Name: | | Printed Name: | |

As Received at Laboratory: On Ice: Yes / No Temp 1.4 °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 an appropriately accredited laboratory. By signing this document you are acknowledging that you have been informed by Microbac that testing could be subcontracted and agree with this arrangement.

Notes:

Arcadis CE, Inc.

855 Route 146
Suite 210
Clifton Park, New York 12065
Tel 518 250 7300
Fax 518 250 7301

www.arcadis.com