

**New York State Department of
Environmental Conservation**

Division of Environmental Remediation

**Remedial System Optimization
Report - Second Quarter 2014**

Vestal Water Supply Site
Vestal, New York
Site Number 7-04-009A

October 2014



A handwritten signature in black ink, appearing to read "Bruce Nelson".

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Principal Geologist / Vice President

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Jeremy Wyckoff
Project Geologist

Remedial System Optimization Report

Vestal Water Supply Site
Site Number 7-04-009A

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Malcolm Pirnie, Inc. was acquired by
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1. Introduction

The New York State Department of Environmental Conservation (NYSDEC) issued a Work Assignment (# D004443-4) to (Malcolm Pirnie, Inc. (Malcolm Pirnie) 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 temporarily 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.

In accordance with the RSO Work Plan, this Quarterly Report has been prepared to summarize the April 2014 through June 2014 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, which will be summarized in the Focused Feasibility Study (FFS).

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 up to one year, collection of groundwater samples from new and existing wells, evaluation of data, and reporting of conclusions and recommendations.

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

2.1 Groundwater Sampling

Groundwater samples were collected from existing and newly installed monitoring wells on May 28, 2014 (Figure 2-2). Groundwater samples were collected using passive diffusion bags (PDBs) in accordance with the RSO Work Plan and were submitted for analysis of TCL VOCs by USEPA Method 8260 to TestAmerica-Buffalo following chain-of-custody sample handling procedures. The USEPA ERT monitoring wells on the ECO International property and Well 1-1A were not sampled during this event.

2.1.1 Water Level Data

Groundwater levels were measured on May 12, 2014 (Well 1-1A continues to be shut down) using an oil-water interface probe. 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 2-1. As shown in Table 2-1, light non-aqueous phase liquid (LNAPL) was detected in monitoring well ERT-1S during the May 12, 2014 (0.91 ft.) gauging event. Based on gauging data presented in the 2012 Conceptual Site Model (Lockheed Martin, 2012), LNAPL has previously been

identified in this well and is not believed to be wide-spread in that area. A trace of LNAPL (0.01 ft) was also present in monitoring wells ERT-2D and ERT-6 during the May 12, 2014 gauging event.

The May 12, 2014 potentiometric maps (Figures 2-2, 2-3, and 2-4) provide groundwater flow information for the shallow, intermediate, and deep groundwater monitoring zones during the Well 1-1A treatment plant shutdown period.

2.1.1.1 Second Quarter (May 12, 2014)

As shown on Figures 2-2 and 2-3, the direction of groundwater flow in the shallow and intermediate groundwater monitoring zones is generally west to northwest. Figure 2-4 shows that the direction of groundwater flow in the deep groundwater monitoring zone between the Well 1-1A treatment facility and the Town of Vestal Wells 1-2A and 1-3 is northwest, toward Well 1-1A and the Susquehanna River. The groundwater flow direction in the shallow and intermediate monitoring zones are generally consistent with the baseline and post extraction Well1-1A treatment facility shutdown conditions. The deep groundwater flow is more directly toward the Susquehanna River compared to previous events.

2.1.2 Second Quarter Groundwater Sampling

On May 28, 2014 the first post extraction Well 1-1A shutdown groundwater samples were collected using PDBs that were deployed on May 12, 2014. PDBs were deployed in 21 existing and 13 newly installed monitoring wells. The offsite USEPA ERT monitoring wells (Figure 2-1) on the ECO International property (the source area) were not sampled during this event, but were sampled during the baseline groundwater sampling event and results were reported in the first quarter RSO (Malcolm Pirnie, August 2014). Extraction Well 1-1A was sampled during the baseline event, but after the shutdown of the Well-1A treatment facility a sample is not able to be collected from this well.

2.1.2.1 Second Quarter Groundwater Sampling Results

Groundwater results from the May 28, 2014 second quarter groundwater sampling event are provided in Table 2-2. The VOCs measured at the highest concentrations were 1,1,1-trichloroethane (1,1,1-TCA), 1,1-dichloroethane (1,1-DCA), 1,1-dichloroethene (1,1-DCE), cis-1,2-dichloroethene (cis-1,2-DCE), trichloroethene (TCE), and vinyl chloride (VC). Total VOC concentrations measured at the shallow,

intermediate, and deep groundwater monitoring zones, and total VOC concentrations during the second quarter groundwater sampling event are presented on Figures 2-5, 2-6, 2-7, and 2-8, respectively.

During the second quarter sampling event and as shown in Table 2-2, the highest VOC concentrations were at 4009-25S which is in the vicinity of the source area (ECO International property). The groundwater samples collected from 4009-25S contained the maximum concentration of total VOCs (4,060 µg/L). As shown on Figure 2-5, the highest concentrations of VOCs in the shallow groundwater monitoring zone are found in the vicinity of the source area.

Figure 2-6 shows that the VOC plume in the intermediate groundwater monitoring zone extends approximately 1,000 feet farther to the west toward Well 1-1A. As shown on Figure 2-6, the highest concentration of total VOCs in the intermediate groundwater monitoring zone detected down-gradient from the source area, was 2,871 µg/L in the sample from 4009-29I.

Figure 2-7 and Table 2-2 show that monitoring wells 4009-12 and 4009-29D were the only wells screened in the deep groundwater monitoring zone that contained concentrations of VOCs that exceeded NYSDEC Class GA Groundwater Standards. The total VOCs measured at each of the deep monitoring wells is as follows; 4009-12 (90.1 µg/L) and 4009-29D (165 µg/L).

Figure 2-8 shows that the groundwater contamination plume is relatively narrow from the source area to monitoring well 4009-12A. Decades of pumping at extraction Wells 1-1 (and replacement well 1-1A) have caused the plume to be drawn from the water table in the vicinity of the source area, to greater than 100 feet bgs approximately 2,000 feet to the west. However, analytical data from groundwater monitoring wells between extraction Well 1-1A and the Town of Vestal wells 1-2A and 1-3, indicate that extraction Well 1-1A has maintained hydraulic control of the plume.

Total VOCs detected in the groundwater samples collected in the May 2014 sampling event are generally consistent with results from the baseline sampling event. There is little change in the groundwater shallow, intermediate, and deep plume distribution and migration. Changes in the VOC concentration figures are associated with the exclusion of the USEPA ERT monitoring wells on the ECO International property and Well 1-1A, as well as some VOC concentration fluctuations after the shutdown of extraction Well 1-1A. Historically the concentrations surrounding the ECO international property have been the greatest, consistent with this area being the source area. Concentrations of

VOCs in samples from the monitoring wells in the vicinity of the Town of Vestals water supply wells 1-2A and 1-3 are below the NYSDEC Class GA Groundwater Standards with the exception of benzene in monitoring well 4009-16A. These detections, as well as others will continue to be monitored during the next quarter.

2.1.3 Post-shutdown Sampling

Quarterly groundwater samples will continue to be collected during the shutdown period of the Well 1-1A groundwater treatment system and analyzed for VOCs. Results from the second round of post-shutdown sampling will be presented in the RSO Third Quarter Report.

2.1.4 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 April 8, 2014, May 20, 2014, and June 17, 2014. Pre-treatment groundwater samples were also collected by Malcolm Pirnie from the Town of Vestal water supply wells 1-2A and 1-3 on April 23, 2014, May 12, 2014 and June 25, 2014. 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.

2.1.4.1 Town of Vestal Municipal Well Sampling Results

VOCs associated with contamination at the source area have 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 during this reporting period. Laboratory analytical reporting forms are provided in Appendix A.

3. Recommendations

Malcolm Pirnie will prepare preliminary technology screening tables for the next quarterly report. The screening tables will identify potential remedies to address groundwater contamination at the site.

4. Activities for Next Quarter

- Third quarter groundwater sampling scheduled for August 2014.
- Monthly post shutdown sampling at Town of Vestal Wells 1-2A and 1-3.
- Third quarter 2014 RSO Report.

5. References

Ecology and Environment, 1986, Remedial Investigation Report, Risk Assessment, and Feasibility Study for Water Supply Well 1-1 Site, Vestal, New York.

Ecology and Environment, 1986a, Work Plan for Additional Soil, Groundwater, and Geophysical Analysis at the Vestal Well Field Site, Vestal, New York, Vestal Phase II, April 10, 1986.

Lockheed Martin, 2012, Conceptual Site Model, Vestal Chlorinated Solvent Site, Vestal, New York, Work Assignment 0-064: Technical Memorandum.

Malcolm Pirnie, 2013, Remedial Site Optimization Work Plan, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Malcolm Pirnie, 2014, Remedial Site Optimization Report 1st Quarter 2014, Vestal Water Supply Site, Work Assignment D007618-7, Site Number 7-04-009A.

Table 2-1 Summary of Groundwater Elevation Data
Remedial Site Optimization Report/ Second Quarter 2014
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 | | |
|-----------|---------------------------|------------|------------|-----------------|------------|------------|-----------------|------------|------------|-----------------|
| | | DTW (fbgs) | DTP (fbgs) | GW ELEV (famsl) | DTW (fbgs) | DTP (fbgs) | GW ELEV (famsl) | DTW (fbgs) | DTP (fbgs) | GW ELEV (famsl) |
| 4009-1 | 831.98 | 7.43 | NP | 824.55 | 7.15 | NP | 824.83 | 7.26 | NP | 824.72 |
| 4009-2 | 827.78 | 18.16 | NP | 809.62 | 17.96 | NP | 809.82 | 17.90 | NP | 809.88 |
| 4009-3 | 823.47 | 16.92 | NP | 806.55 | 14.52 | NP | 808.95 | 15.10 | NP | 808.37 |
| 4009-4 | 822.22 | 11.87 | NP | 810.35 | 10.64 | NP | 811.58 | 10.80 | NP | 811.42 |
| 4009-5 | 824.36 | 18.47 | NP | 805.89 | 16.23 | NP | 808.13 | 17.70 | NP | 806.66 |
| 4009-6 | 827.73 | 20.88 | NP | 806.85 | 19.38 | NP | 808.35 | 19.50 | NP | 808.23 |
| 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 |
| 4009-12A | 823.80 | 20.21 | NP | 803.59 | 16.60 | NP | 807.20 | 17.98 | 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 |
| 4009-17 | 820.53 | 26.12 | NP | 794.41 | 12.95 | NP | 807.58 | 14.52 | NP | 806.01 |
| 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 |
| 4009-20 | 822.90 | 18.45 | NP | 804.45 | 15.60 | NP | 807.30 | 17.82 | NP | 805.08 |
| 4009-21 | 823.10 | 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 |
| 4009-23S | 824.48 | 16.65 | NP | 807.83 | 15.48 | NP | 809.00 | 14.88 | NP | 809.60 |
| 4009-23D | 824.39 | 18.93 | NP | 805.46 | 16.37 | NP | 808.02 | 17.15 | NP | 807.24 |
| 4009-24 | 822.32 | 15.52 | NP | 806.80 | 13.38 | NP | 808.94 | 13.99 | NP | 808.33 |
| 4009-25S | 823.61 | 14.77 | NP | 808.84 | 13.84 | NP | 809.77 | 13.95 | NP | 809.66 |
| 4009-25D | 823.57 | 14.98 | NP | 808.59 | 13.70 | NP | 809.87 | 13.78 | NP | 809.79 |
| 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 |
| WELL 1-1 | 832.36 | 29.09 | NP | 803.27 | 25.23 | NP | 807.13 | 25.50 | NP | 806.86 |
| WELL 1-1A | 831.13 | 24.93 | NP | 806.20 | 24.13 | NP | 807.00 | 26.72 | NP | 804.41 |
| ERT-1S | 824.01 | 12.65 | 11.72 | 810.57 | 11.83 | 10.88 | 811.37 | 11.53 | 10.62 | 811.71 |
| ERT-1I | 824.03 | 13.45 | NP | 810.58 | 12.43 | NP | 811.60 | 12.42 | NP | 811.61 |
| ERT-1D | 823.88 | 13.50 | 13.49 | 810.38 | 12.50 | NP | 811.38 | 12.42 | NP | 811.46 |
| ERT-2S | 824.67 * | 14.19 | NP | 810.48 | 13.72 | NP | 810.95 | 13.00 | NP | 811.67 |
| ERT-2I | 824.54 * | 14.07 | NP | 810.47 | 13.08 | NP | 811.46 | 13.06 | NP | 811.48 |
| ERT-2D | 824.44 * | 12.98 | NP | 811.46 | 12.88 | NP | 811.56 | 12.56 | 12.55 | 811.88 |
| ERT-3S | 824.38 | 13.29 | NP | 811.09 | 12.94 | NP | 811.44 | 11.83 | NP | 812.55 |
| ERT-3I | 824.23 | 14.21 | NP | 810.02 | 13.23 | NP | 811.00 | 13.20 | NP | 811.03 |
| ERT-3D | 824.20 | 14.95 | NP | 809.25 | 14.62 | NP | 809.58 | 13.78 | NP | 810.42 |
| ERT-4S | 823.54 | 13.32 | NP | 810.22 | 12.58 | NP | 810.96 | 12.85 | NP | 810.69 |
| ERT-4I | 823.49 | 14.23 | NP | 809.26 | 13.37 | NP | 810.12 | 13.42 | NP | 810.07 |
| ERT-4D | 823.63 | 14.55 | NP | 809.08 | 13.56 | NP | 810.07 | 13.63 | NP | 810.00 |
| ERT-5 | 824.64 * | NM | NM | NM | 12.34 | NP | 812.30 | 12.40 | NP | 812.24 |
| ERT-6 | 824.74 * | 14.25 | NP | 810.49 | 13.05 | NP | 811.69 | 13.15 | 13.14 | 811.59 |
| ERT-7 | 823.96 | 15.38 | NP | 808.58 | 14.25 | NP | 809.71 | 14.55 | NP | 809.41 |
| ERT-8 | 824.69 | 16.70 | NP | 807.99 | 15.13 | NP | 809.56 | 15.50 | NP | 809.19 |

Notes:

fbgs - feet below ground surface

famsl - feet above mean sea level

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

NM - Not measured

NP - No product encountered with interface probe Corrected based on assumed LNAPL density of 0.85 g/cm³

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Second Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-22 5/28/2014 Deep ug/L | 4009-23S 2/20/2014 Shallow ug/L | 4009-23S 5/28/2014 Shallow ug/L | 4009-23D 2/20/2014 Intermediate ug/L | 4009-23D 5/28/2014 Intermediate ug/L | 4009-24 2/20/2014 Shallow ug/L | 4009-24 5/28/2014 Shallow ug/L | 4009-25S 2/20/2014 Shallow ug/L | 4009-25S 5/28/2014 Shallow ug/L | 4009-25D 2/20/2014 Shallow ug/L | DUP-02 ² 2/20/2014 Shallow ug/L | 4009-25D 5/28/2014 Shallow ug/L | DUP-02 ² 5/28/2014 Shallow ug/L | 4009-26 2/20/2014 Intermediate ug/L | 4009-26 5/28/2014 Intermediate ug/L |
|--|----------------------------------|--------------------------------------|--|--|---|---|---|---|--|--|--|---|--|---|--|--|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 130 D | 720 | 1.0 U | 1.0 U | 2600 D | 3300 | 1900 D | 1800 D | 3300 | 3200 | 98 | 370 |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | 1.0 U | 1.0 U | 24 | 18 | 1.0 U | 1.0 U | 31 | 40 U | 32 | 31 | 22 J | 16 J | 7.7 | 13 |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,1-Dichloroethane | 5 | 1.0 U | 3.2 | 4.4 | 250 D | 420 | 1.0 U | 1.0 U | 87 | 140 | 74 | 79 | 120 | 110 | 27 | 39 |
| 1,1-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 31 | 78 | 1.0 U | 1.0 U | 110 D | 410 | 120 D | 50 | 330 | 330 | 6.0 | 46 |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.8 | 0.38 J | 10 UD | 10 U | 1.0 U | 1.0 U | 40 UD | 40 U | 20 UD | 1.0 U | 20 U | 25 U | 2.0 UD | 8.0 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,2,4-Trimethylbenzene | 5 | 1.0 U | 8.6 | 2 | 10 UD | 10 U | 1.0 U | 1.0 U | 40 UD | 40 U | 20 UD | 1.0 U | 20 U | 25 U | 2.0 UD | 8.0 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 1.0 U | 1.0 U | 0.4 J | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,2-Dichloropropane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 4.4 | 1.2 | 10 UD | 10 U | 1.0 U | 1.0 U | 40 UD | 40 U | 20 UD | 1.0 U | 20 U | 25 U | 2.0 UD | 8.0 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| 2-Butanone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 100 U | 1.4 J | 10 U | 10 U | 400 U | 10 U | 10 U | 200 U | 250 U | 10 U | 80 U |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 U | 5.0 U | 5.0 U | 5.0 U | 200 U | 5.0 U | 5.0 U | 100 U | 130 U | 5.0 U | 40 U |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 U | 5.0 U | 5.0 U | 5.0 U | 200 U | 5.0 U | 5.0 U | 100 U | 130 U | 5.0 U | 40 U |
| Acetone | 50* | 10 U | 6.1 J | 10 U | 8.3 J | 100 U | 9.3 J | 4.2 J | 10 U | 400 U | 6.0 J | 5.6 J | 200 U | 250 U | 10 | 80 U |
| Benzene | 1 | 0.92 J | 1.8 | 1.8 | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 0.81 J | 8.0 U |
| Bromodichloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Bromoform | 50* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Bromomethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Carbon disulfide | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Carbon tetrachloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Chloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 11 | 11 | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Chloroform | 7 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Chloromethane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| cis-1,2-Dichloroethene | 5 | 1.0 U | 2.2 | 2.2 | 580 D | 450 | 1.0 U | 1.0 U | 180 D | 210 | 76 | 80 | 110 | 140 | 120 D | 190 |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Cyclohexane | | 1.0 U | 0.8 J | 0.61 J | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Dichlorodifluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 3.9 | 5.8 J |
| Ethylbenzene | 5 | 1.0 U | 1.0 U | 0.83 J | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Isopropylbenzene (Cumene) | 5 | 1.0 U | 5.3 | 3.6 | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Methyl Acetate | | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 25 U | 2.5 U | 2.5 U | 2.5 U | 100 U | 2.5 U | 2.5 U | 50 U | 63 U | 2.5 U | 20 U |
| Methyl Cyclohexane | | 1.0 U | 0.7 J | 0.5 J | 0.3 J | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.4 |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Styrene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.1 | 8.0 U |
| Toluene | 5 | 1.1 | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 2.4 | 2.8 | 2.3 | 10 U | 1.0 U | 1.0 U | 2.9 | 40 U | 2.0 | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Trichloroethene | 5 | 1.0 U | 1.6 | 1.6 | 8.7 | 8.3 J | 1.0 U | 1.0 U | 32 | 40 U | 16 | 15 | 10 J | 25 U | 45 | 71 |
| Trichlorofluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 40 U | 1.0 U | 1.0 U | 20 U | 25 U | 1.0 U | 8.0 U |
| Vinyl chloride | 2 | 1.0 U | 0.9 J | 1.1 | 630 D | 440 | 1.0 U | 1.0 U | 3.7 | 40 U | 1.4 | 1.3 | 20 U | 25 U | 12 | 21 |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 20 U | 2.0 U | 2.0 U | 2.0 U | 80 U | 2.0 U | 2.0 U | 40 U | 50 U | 2.0 U | 16.0 U |
| Total VOCs | | 2.02 | 39.8 | 23.1 | 1676 | 2145 | 10.7 | 4.2 | 3047 | 4060 | 2227 | 2062 | 3892 | 3821 | 332 | 764 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 2.02 | 33.7 | 23.1 | 1667 | 2145 | 1.4 | 0 | 3047 | 4060 | 2221 | 2056 | 3892 | 3821 | 322 | 756 |

Notes

- - Concentration exceeds NYSDEC Class GA Standard
- U - Compound was not detected at the indicated concentration
- J - Compound detected below the reporting limit or concentration is estimated for TICS.
- B - Analyte detected in the method blank and sample
- E - Estimated value.
- D - Result of diluted sample shown
- * - Laboratory control sample/duplicate exceeds control limits.
- 2-Sample DUP-02 is a duplicate sample from 4009-25D
- 3-Sample DUP-01 is a duplicate sample from 4009-29I

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Second Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-27S 2/20/2014 Intermediate ug/L | 4009-27S 5/28/2014 Intermediate ug/L | 4009-27I 2/20/2014 Intermediate ug/L | 4009-27I 5/28/2014 Intermediate ug/L | 4009-27D 2/20/2014 Deep ug/L | 4009-27D 5/28/2014 Deep ug/L | 4009-28 2/20/2014 Deep ug/L | 4009-28 5/28/2014 Deep ug/L | 4009-29S 2/20/2014 Intermediate ug/L | 4009-29S 5/28/2014 Intermediate ug/L | 4009-29I 2/20/2014 Intermediate ug/L | DUP_01 ³ 2/20/2014 Intermediate ug/L | 4009-29I 5/28/2014 Intermediate ug/L | DUP_01 ³ 5/28/2014 Intermediate ug/L |
|--|----------------------------------|---|---|---|---|---------------------------------------|---------------------------------------|--------------------------------------|--------------------------------------|---|---|---|--|---|--|
| 1,1,1-Trichloroethane | 5 | 54 | 61 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.3 | 2.7 | 710 D | 650 | 1700 D | 1500 D | 1600 | 1500 |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 2.8 | 3.4 | 1.0 U | 0.37 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 12 | 10 U | 10 U | 21 | 25 U | 25 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 | 10 U | 1.0 U | 0.86 J | 0.86 J | 25 U |
| 1,1-Dichloroethane | 5 | 1.9 | 2.2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 130 D | 35 | 83 | 86 | 96 | 89 |
| 1,1-Dichloroethene | 5 | 5.7 | 8.9 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.3 J | 92 | 89 | 150 D | 99 | 230 | 230 |
| 1,2,3-Trimethylbenzene | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,2,4-Trichlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,2-Dibromo-3-Chloropropane | 0.04 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,2-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,2-Dichloroethane | 0.6 | 1.0 U | 0.9 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 0.41 J | 0.40 J | 25 U | 25 U |
| 1,2-Dichloropropane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,3-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| 2-Butanone (MEK) | 50 | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 10 U | 100 U | 10 U | 10 U | 250 U | 250 U |
| 2-Hexanone | 50* | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 U | 5.0 U | 5.0 U | 130 U | 130 U |
| 4-Methyl-2-pentanone (MIBK) | | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 50 U | 5.0 U | 5.0 U | 130 U | 130 U |
| Acetone | 50* | 9.9 J | 3.8 J | 5.8 J | 10 U | 9.8 J | 4.8 J | 7.9 J | 3.7 J | 6.0 J | 100 U | 11 | 13 | 250 U | 250 U |
| Benzene | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 0.59 J | 0.60 J | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Bromoform | 50* | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Bromomethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.6 | 1.7 | 25 U | 25 U |
| Chloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 2.9 | 10 U | 5.0 | 4.6 | 25 U | 25 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 | 0.69 J | 10 U | 1.1 | 1.2 | 25 U | 25 U |
| Chloromethane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| cis-1,2-Dichloroethene | 5 | 18 | 20 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 260 D | 340 | 400 D | 350 D | 400 | 380 |
| cis-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Dibromochloromethane | 50 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Dichlorodifluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.3 | 10 U | 1.2 | 1.0 U | 25 U | 25 U |
| Ethylbenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Methyl Acetate | | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 25 U | 2.5 U | 2.5 U | 63 U | 63 U |
| Methyl Cyclohexane | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Styrene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Tetrachloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.95 J | 10 U | 2.1 | 2.0 | 25 U | 25 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 | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| trans-1,2-Dichloroethene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.5 | 10 U | 3.4 | 1.5 | 25 U | 25 U |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 1.0 U | 1.0 U | 25 U | 25 U |
| Trichloroethene | 5 | 25 | 28 | 1.4 | 1.1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 300 D | 10 U | 450 D | 410 D | 460 | 430 |
| Trichlorofluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 0.94 J | 1.1 | 25 U | 25 U |
| Vinyl chloride | 2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 43 | 15 | 85 | 75 | 85 | 78 |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 2.0 U | 20 U | 2.0 U | 2.0 U | 50 U | 50 U |
| Total VOCs | | 117 | 128 | 7.2 | 1.47 | 9.8 | 4.8 | 9.2 | 6.7 | 1560 | 1129 | 2917 | 2567 | 2871 | 2707 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 107 | 124 | 1.4 | 1.47 | 0 | 0 | 1.3 | 3.01 | 1554 | 1129 | 2906 | 2554 | 2871 | 2707 |


Notes
 - Concentration exceeds NYSDEC Class GA Standard
U - Compound was not detected at the indicated concentration
J - Compound detected below the reporting limit or concentration is estimated for TICS.
B - Analyte detected in the method blank and sample
E - Estimated value.
D - Result of diluted sample shown
* - Laboratory control sample/duplicate exceeds control limits.
2-Sample DUP-02 is a duplicate sample from 4009-25D
3-Sample DUP-01 is a duplicate sample from 4009-29I

Table 2-2 Summary of Groundwater Results
Remedial Site Optimization Report/ Second Quarter 2014
Vestal Water Supply Site
Site Number 7-04-009A

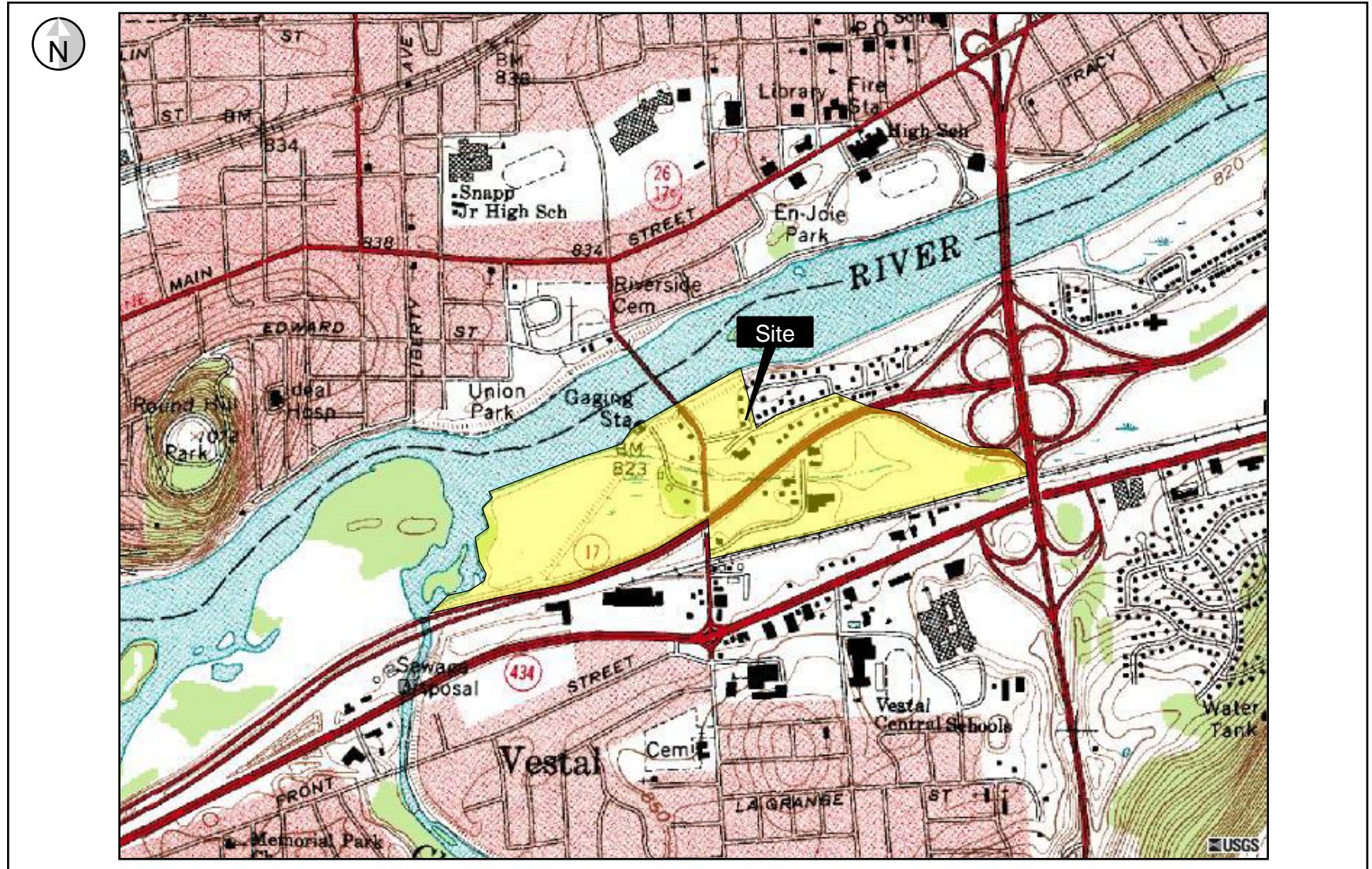
| Sample ID Sampling Date Groundwater Monitoring Zone Units | NYSDEC GA Standard ug/L | 4009-29D 2/20/2014 Deep ug/L | 4009-29D 5/28/2014 Deep ug/L | 1-1A(EFF) 2/21/2014 ug/L | 1-1A(INF) 2/21/2014 Deep ug/L |
|--|----------------------------------|---------------------------------------|---------------------------------------|--------------------------------|--|
| 1,1,1-Trichloroethane | 5 | 1.0 U | 80 | 3.9 | 120 D |
| 1,1,2,2-Tetrachloroethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1,2-Trichloro-1,2,2-Trifluoroethane | | 1.0 U | 1.1 | 1.0 U | 2.1 |
| 1,1,2-Trichloroethane | 1 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 1,1-Dichloroethane | 5 | 1.1 | 16 | 2.6 | 17 |
| 1,1-Dichloroethene | 5 | 1.0 U | 12 | 1.0 U | 9.3 |
| 1,2,3-Trimethylbenzene | | 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 |
| 1,2,4-Trimethylbenzene | 5 | 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 |
| 1,2-Dibromoethane (Ethylene Dibromide) | 5 | 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 |
| 1,2-Dichloroethane | 0.6 | 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 |
| 1,3,5-Trimethylbenzene (Mesitylene) | 5 | 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 |
| 1,4-Dichlorobenzene | 3 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| 2-Butanone (MEK) | 50 | 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-2-pentanone (MIBK) | | 5.0 U | 5.0 U | 5.0 U | 5.0 U |
| Acetone | 50* | 6.9 J | 10 U | 10 U | 10 U |
| Benzene | 1 | 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 |
| Bromoform | 50* | 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 |
| Carbon disulfide | | 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 |
| Chlorobenzene | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Chloroethane | 5 | 1.0 U | 1.4 | 1.0 U | 0.5 J |
| Chloroform | 7 | 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 |
| cis-1,2-Dichloroethene | 5 | 1.4 | 25 | 9.6 | 39 |
| cis-1,3-Dichloropropene | 0.4 | 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 |
| Dibromochloromethane | 50 | 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 |
| Ethylbenzene | 5 | 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 |
| Methyl Acetate | | 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 |
| Methylene Chloride | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Methyl Tert Butyl Ether | 10 | 1.0 U | 1.0 U | 1.5 | 1.9 |
| Styrene | 5 | 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 |
| Toluene | 5 | 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 |
| trans-1,3-Dichloropropene | 0.4 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Trichloroethene | 5 | 1.8 | 17 | 3.8 | 43 |
| Trichlorofluoromethane | 5 | 1.0 U | 1.0 U | 1.0 U | 1.0 U |
| Vinyl chloride | 2 | 4.7 | 12 | 1.0 U | 4.6 |
| Xylenes, Total | | 2.0 U | 2.0 U | 2.0 U | 2.0 U |
| Total VOCs | | 15.9 | 165 | 21.4 | 237 |
| Total VOCs (w/o Acetone or Methylene Chloride) | | 9.0 | 165 | 21.4 | 237 |

Notes

- - Concentration exceeds NYSDEC Class GA Standard
- U - Compound was not detected at the indicated concentration
- J - Compound detected below the reporting limit or concentration is estimated for TICS.
- B - Analyte detected in the method blank and sample
- E - Estimated value.
- D - Result of diluted sample shown
- * - Laboratory control sample/duplicate exceeds control limits.
- 2-Sample DUP-02 is a duplicate sample from 4009-25D
- 3-Sample DUP-01 is a duplicate sample from 4009-29I

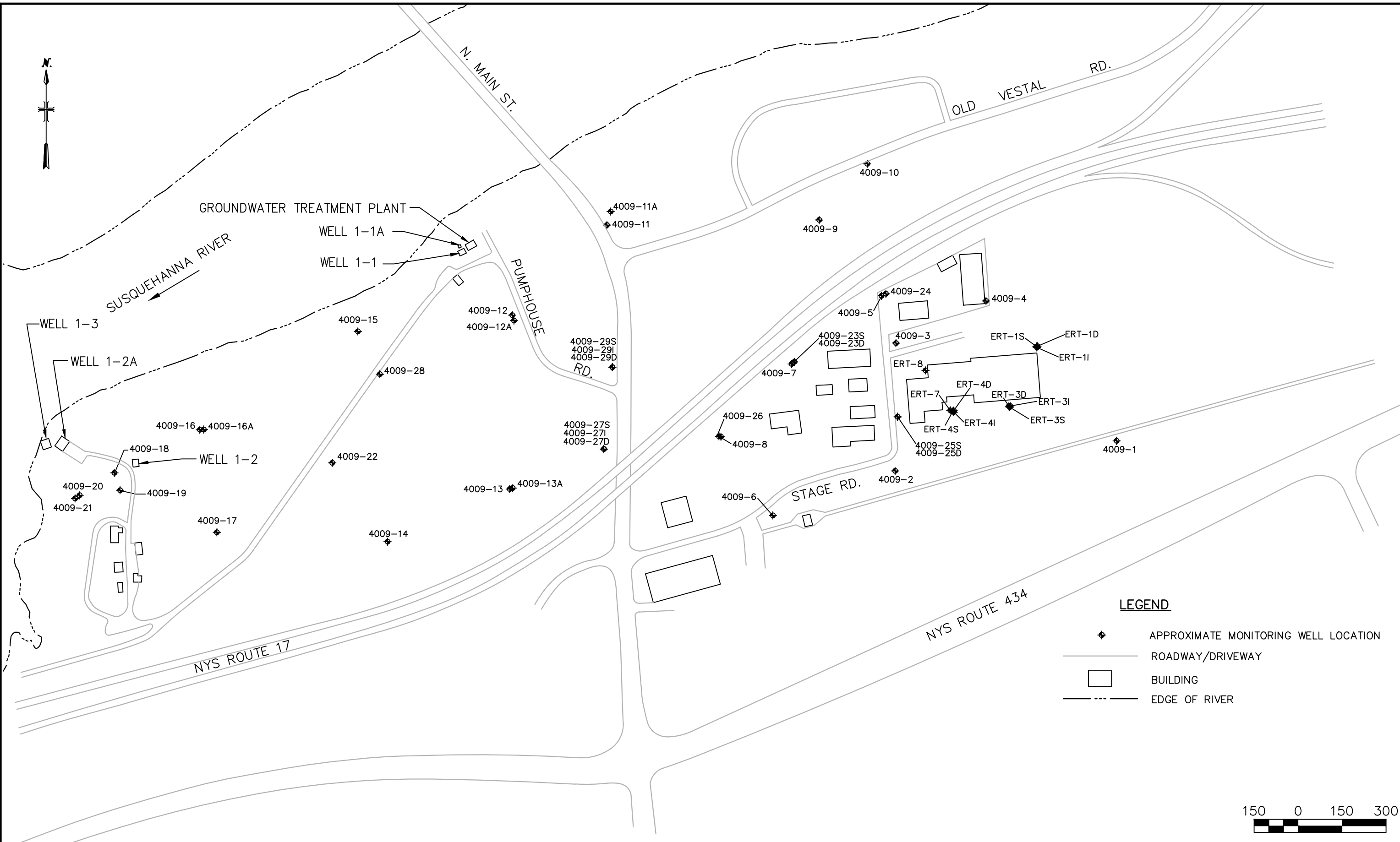
Figure 1-1
Site Location
Vestal Water Supply Site
Vestal, New York
NYSDEC Site # 7-04-009A

0 2,000 ft



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

User: Hausmann Spec: PIRNIE_STANDARD File: C:\ACAD\PROJ\00266401\0000\FIGURES\MW_LOCATIONS.DWG Scale: 1:1 Date: 02/26/2014 Time: 08:12 Layout: Layout1



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

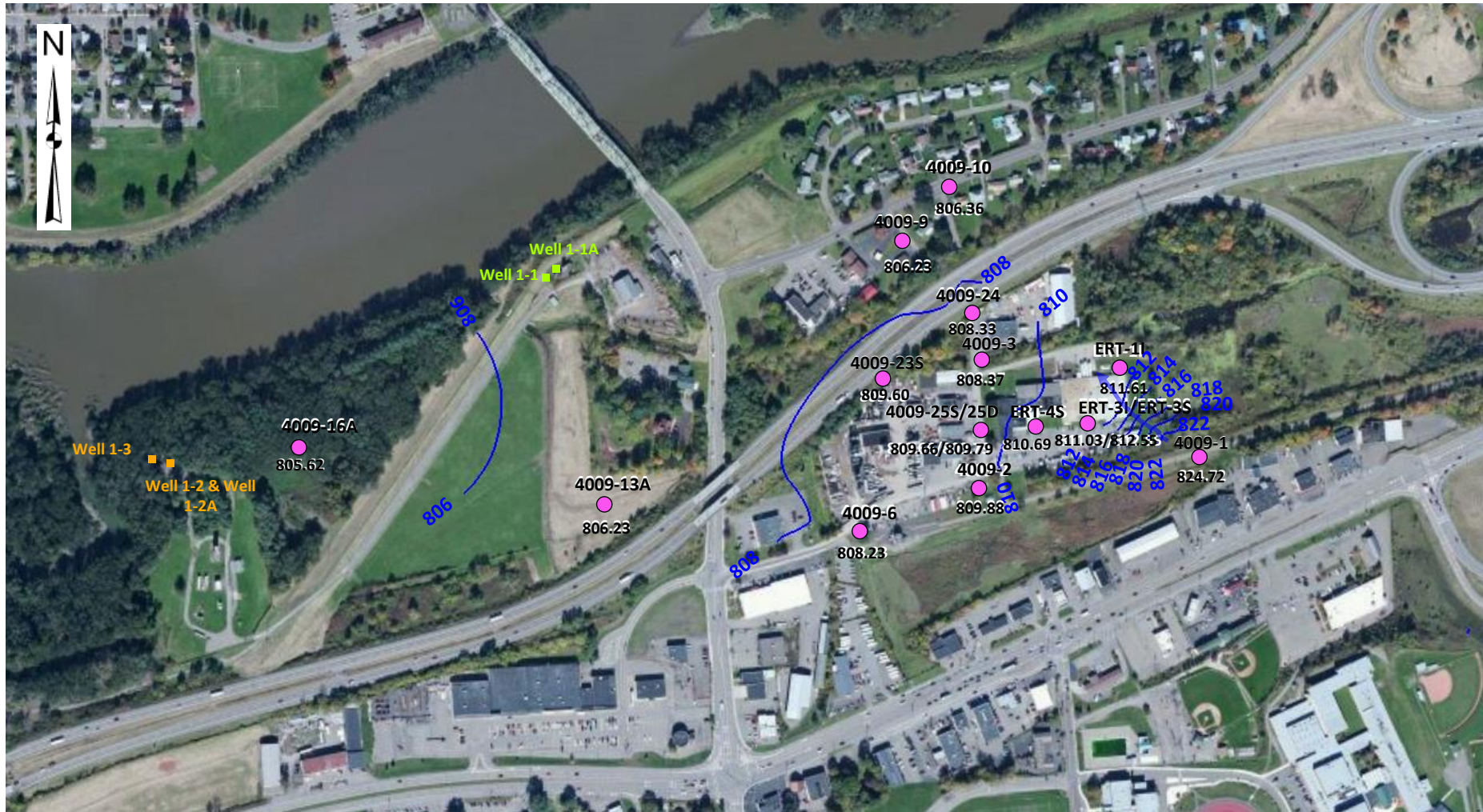


NYSDEC STANDBY CONTRACT NO. D007618-7
 NYSDEC SITE NO. 7-04-009
VESTAL WATER SUPPLY
 VESTAL, NEW YORK

MONITORING WELL LOCATION MAP

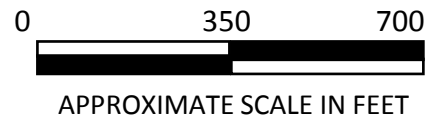
SCALE: AS SHOWN

MAY 2014
 FIGURE 2-1



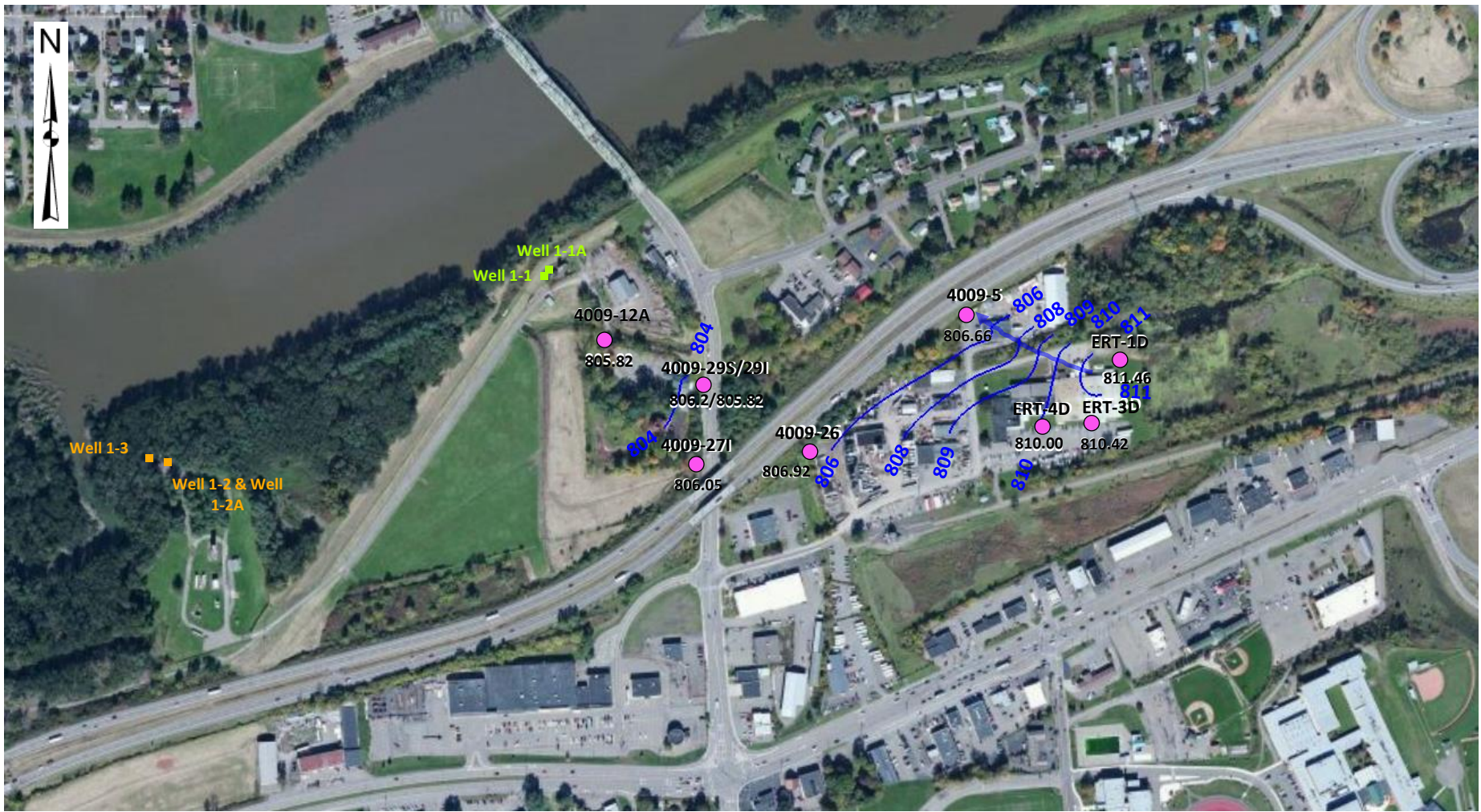
LEGEND

- Well 1-1A ■ EXTRACTION WELL & IDENTIFIER
- 4009-16A ● MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 807.39 ~ GROUNDWATER ELEVATION POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3 ■ WATER SUPPLY WELL & IDENTIFIER



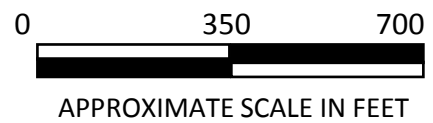
| |
|--|
| Vestal Water Supply NYSDEC Site #7-04-009 Vestal, New York |
| Shallow Potentiometric Surface with Well 1-1A Inactive (May 2014 Heads) |
| 2-2 |

Figure



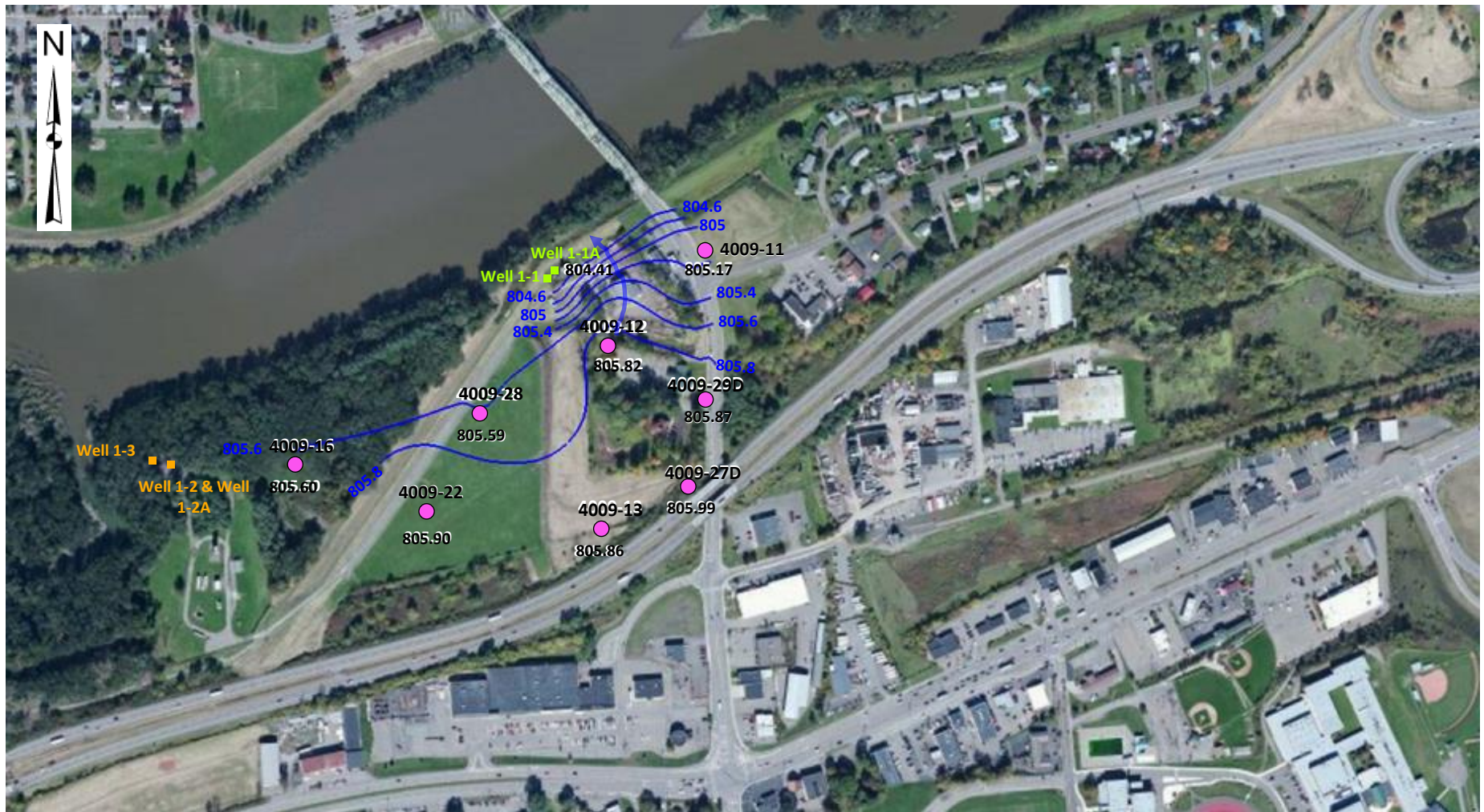
LEGEND

- Well 1-1A
■ EXTRACTION WELL & IDENTIFIER
- 4009-12A
● MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 805.82
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- Well 1-3
■ WATER SUPPLY WELL & IDENTIFIER



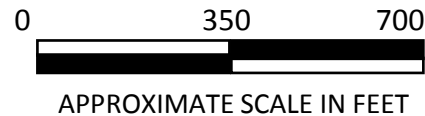
| |
|---|
| Vestal Water Supply NYSDEC Site #7-04-009 Vestal, New York |
| Intermediate Potentiometric Surface with Well 1-1A Inactive (May 2014 Heads) |
| 2-3 |

Figure 2-3

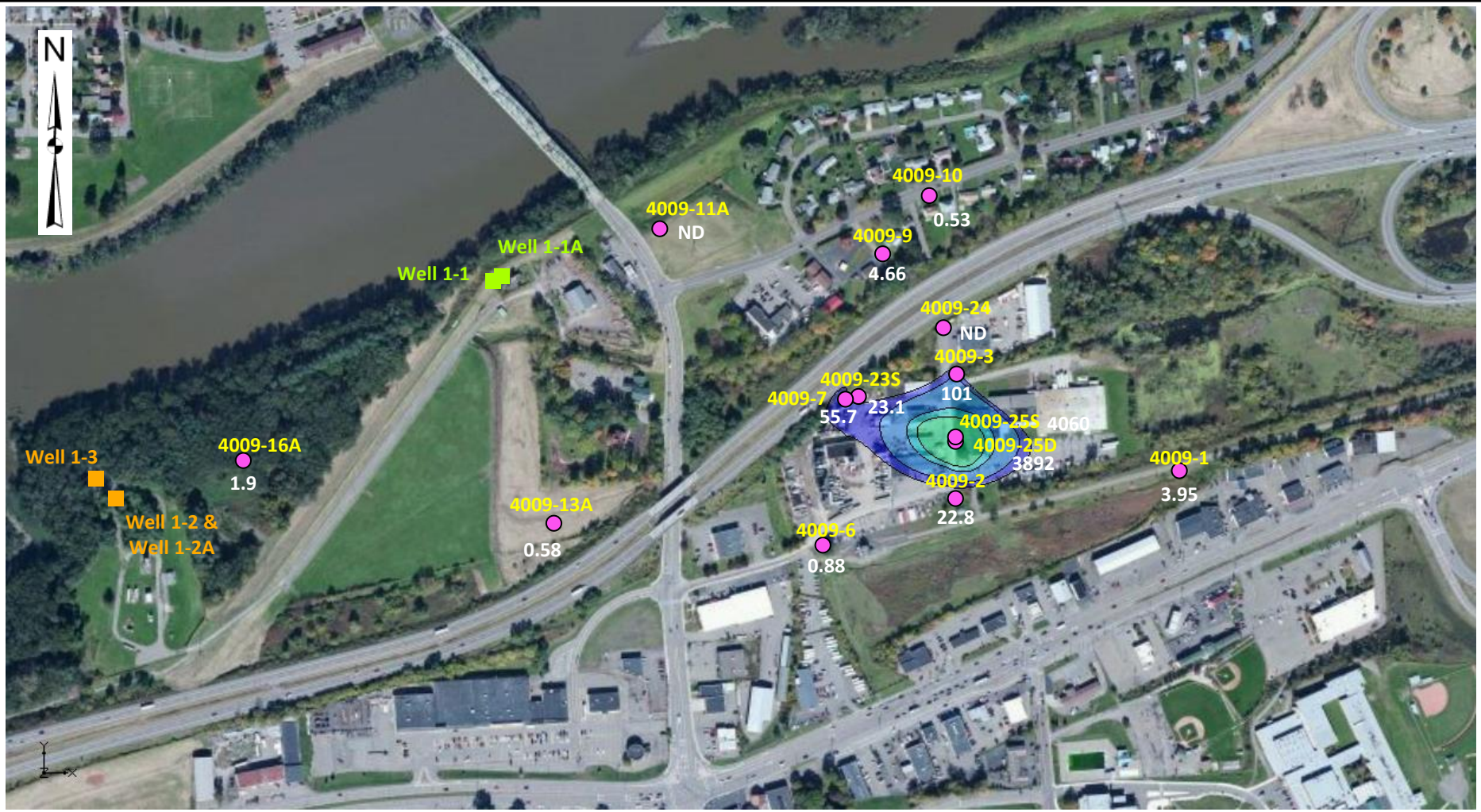


LEGEND

- Well 1-1A
■ EXTRACTION WELL & IDENTIFIER
- 4009-15
● MONITORING WELL & IDENTIFIER
(Groundwater Elevation – Feet AMSL)
- 805.60
● GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
(Feet AMSL)
- 805.8
~ WATER SUPPLY WELL & IDENTIFIER
- Well 1-3
■

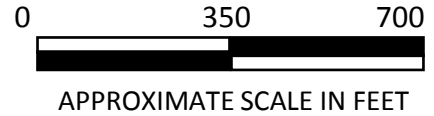
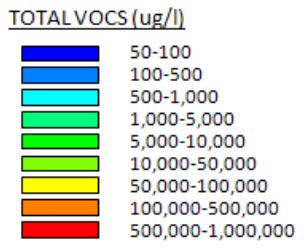


| | |
|---|----------------------|
| Vestal Water Supply NYSDEC Site #7-04-009 Vestal, New York | |
| Deep Potentiometric Surface with Well 1-1A Inactive (May 2014 Heads) | |
| | Figure 2-4 |



LEGEND

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



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

**Total VOC Concentrations
(Shallow Wells)
May 28, 2014**




Figure
2-5

Infrastructure · Water · Environment · Buildings

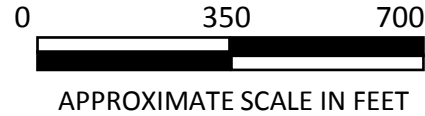


LEGEND

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

TOTAL VOCs (ug/l)

| | |
|--|-------------------|
| | 50-100 |
| | 100-500 |
| | 500-1,000 |
| | 1,000-5,000 |
| | 5,000-10,000 |
| | 10,000-50,000 |
| | 50,000-100,000 |
| | 100,000-500,000 |
| | 500,000-1,000,000 |



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

**Total VOC Concentrations
(Intermediate Wells)
May 28, 2014**


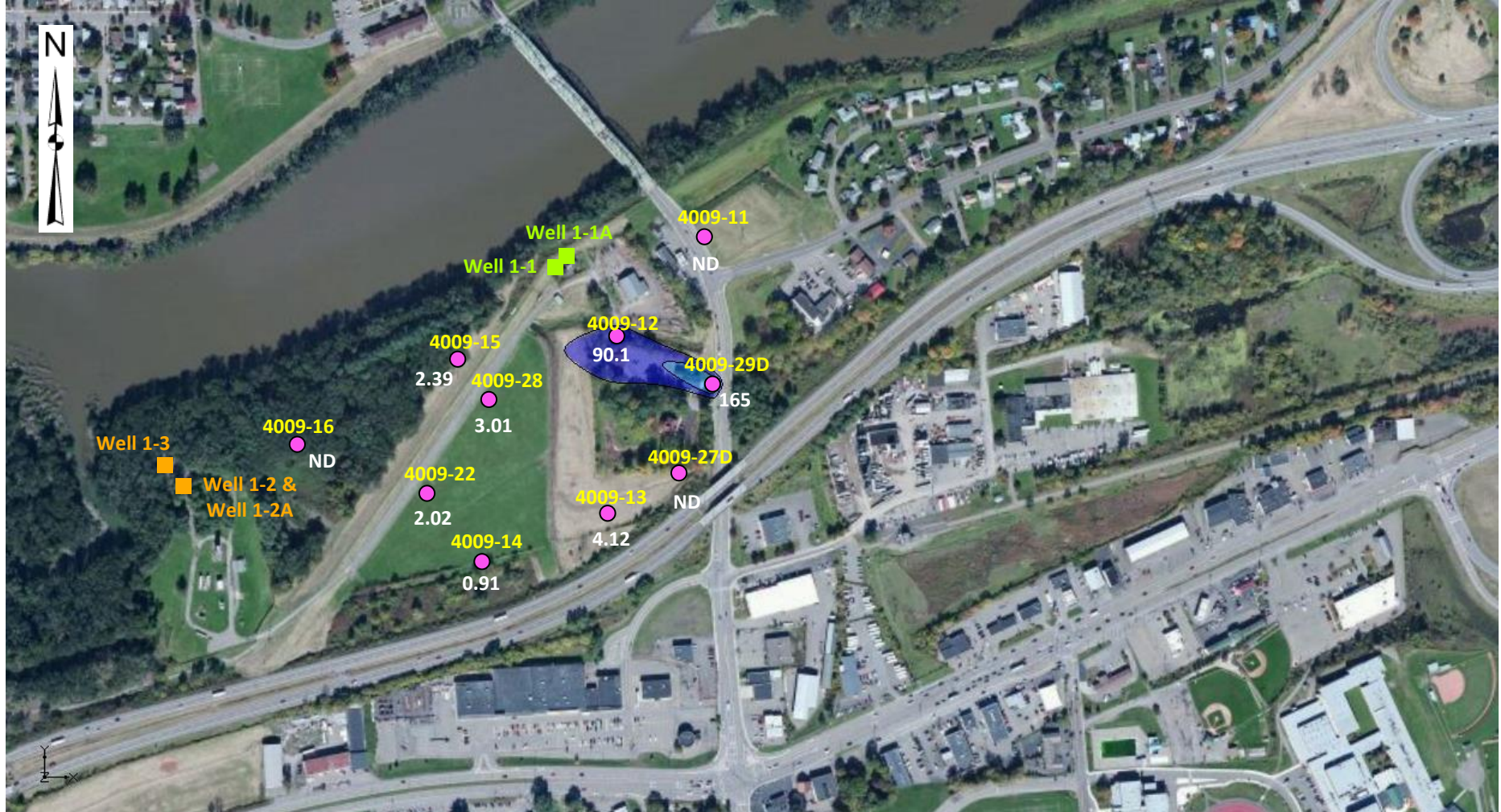
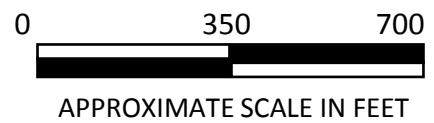
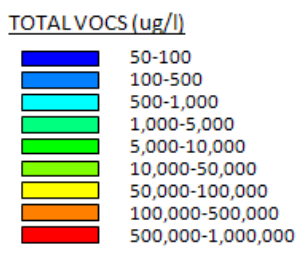


Figure
2-6



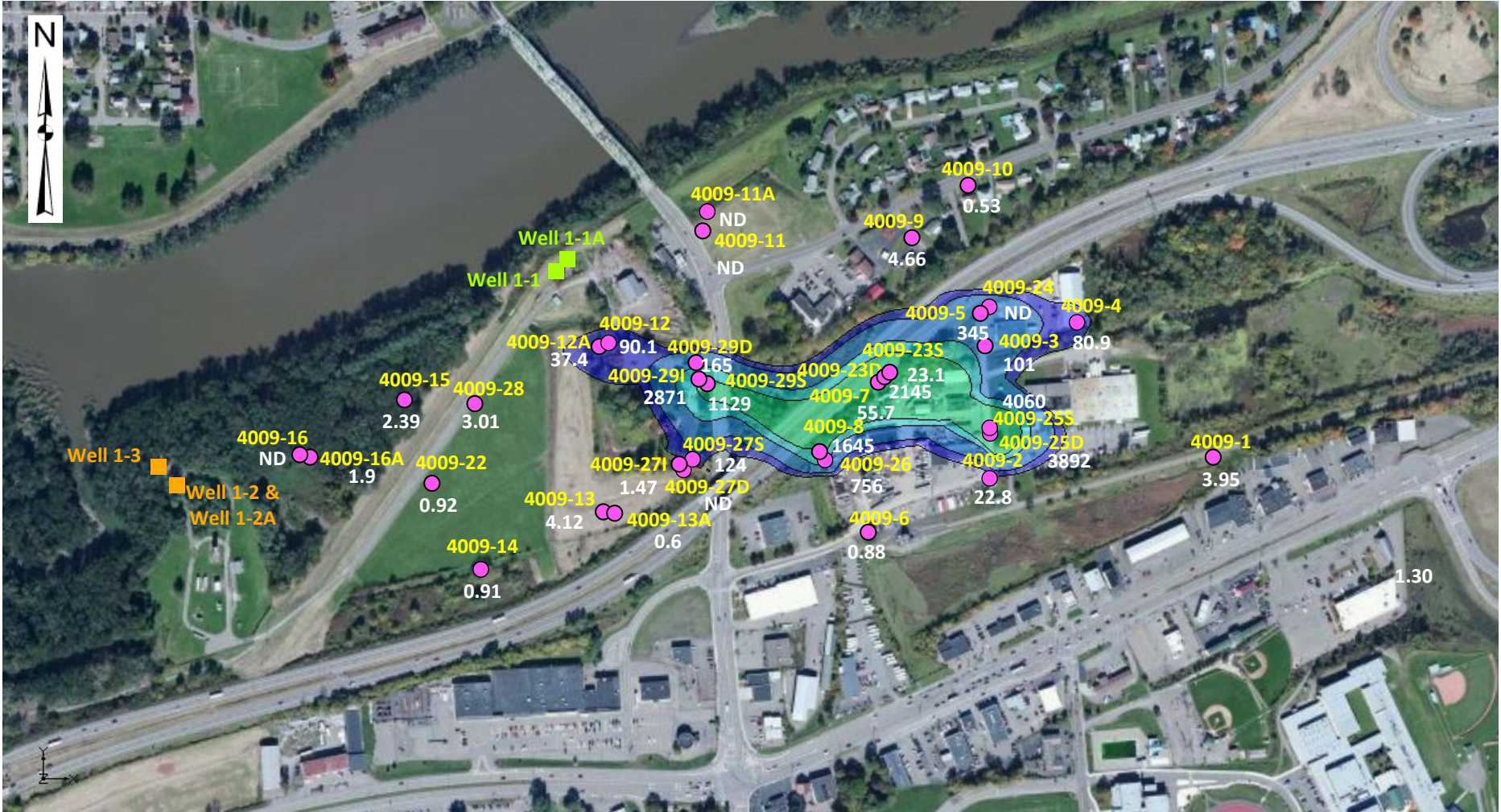
LEGEND

- **Well 1-3** WATER SUPPLY WELL & IDENTIFIER
- **4009-15** MONITORING WELL & IDENTIFIER
2.39 Total VOC Concentration(ug/L); "ND" indicates no detection
- **Well 1-1** EXTRACTION WELL & IDENTIFIER



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

**Total VOC Concentrations
(Deep Wells)
May 28, 2014**



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

**Total VOC Concentrations
 (All Wells)
 May 28, 2014**

Appendix A

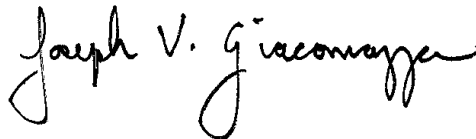
Analytical Reporting Forms

ANALYTICAL REPORT

Job Number: 480-59007-1

Job Description: Vestal Well 1-1A Sampling LMCO

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
5/9/2014 4:46 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
05/09/2014

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



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Job Narrative
480-59007-1

Receipt

The samples were received on 5/1/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.4° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) for 179534 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria. (CCVIS 480-179534/2)

No other analytical or quality issues were noted.

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Instrument ID: HP5975D Analysis Batch Number: 177332Lab Sample ID: IC 480-177332/5 Client Sample ID: _____Date Analyzed: 04/22/14 05:39 Lab File ID: D1210.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Bromomethane | 1.81 | Baseline | quirkp | 04/22/14 12:36 |
| Acetone | 2.60 | Peak Tail | quirkp | 04/22/14 12:38 |
| Methyl acetate | 2.87 | Baseline | quirkp | 04/22/14 12:34 |
| 2-Methyl-2-propanol | 3.10 | Coelution | BrandtT | 04/22/14 17:49 |
| Acrylonitrile | 3.18 | Peak Tail | quirkp | 04/22/14 12:34 |
| 2-Butanone (MEK) | 4.00 | Peak Tail | quirkp | 04/22/14 12:42 |
| 1,4-Dioxane | 5.42 | Missed Peak | quirkp | 04/22/14 11:28 |

Lab Sample ID: IC 480-177332/6 Client Sample ID: _____Date Analyzed: 04/22/14 06:01 Lab File ID: D1211.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Bromomethane | 1.80 | Baseline | quirkp | 04/22/14 12:43 |
| 2-Methyl-2-propanol | 3.09 | Coelution | BrandtT | 04/22/14 17:50 |
| 1,4-Dioxane | 5.41 | Peak Tail | BrandtT | 04/22/14 17:37 |

Lab Sample ID: IC 480-177332/7 Client Sample ID: _____Date Analyzed: 04/22/14 06:22 Lab File ID: D1212.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| Methylene Chloride | 2.94 | Peak Tail | quirkp | 04/22/14 12:44 |
| 2-Methyl-2-propanol | 3.09 | Coelution | BrandtT | 04/22/14 17:50 |
| 1,4-Dioxane | 5.42 | Peak Tail | quirkp | 04/22/14 11:31 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Instrument ID: HP5975D Analysis Batch Number: 177332Lab Sample ID: ICIS 480-177332/8 Client Sample ID: _____Date Analyzed: 04/22/14 06:43 Lab File ID: D1213.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-Methyl-2-propanol | 3.09 | Coelution | BrandtT | 04/22/14 17:50 |
| 1,4-Dioxane | 5.40 | Peak Tail | quirkp | 04/22/14 11:32 |

Lab Sample ID: IC 480-177332/9 Client Sample ID: _____Date Analyzed: 04/22/14 07:04 Lab File ID: D1214.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 5.40 | Peak Tail | quirkp | 04/22/14 11:33 |

Lab Sample ID: IC 480-177332/10 Client Sample ID: _____Date Analyzed: 04/22/14 07:25 Lab File ID: D1215.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------------|----------------|--------------------|---------|----------------|
| | | REASON | ANALYST | DATE |
| 2-Methyl-2-propanol | 3.09 | Coelution | BrandtT | 04/22/14 17:51 |
| 1,4-Dioxane | 5.40 | Peak Tail | quirkp | 04/22/14 12:47 |

GC/MS VOA MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Instrument ID: HP5975D Analysis Batch Number: 179534Lab Sample ID: CCVIS 480-179534/2 Client Sample ID: _____Date Analyzed: 05/01/14 20:06 Lab File ID: D1598.D GC Column: RTX-CLPII ID: 0.53 (mm)

| COMPOUND NAME | RETENTION TIME | MANUAL INTEGRATION | | |
|---------------|----------------|--------------------|----------|----------------|
| | | REASON | ANALYST | DATE |
| 1,4-Dioxane | 5.40 | Peak Tail | cwiklinc | 05/02/14 02:17 |

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------------|-------------------------|----------------------|------------------------------|-------------------------------|
| 480-59007-1 | 1-2 | Water | 04/23/2014 1340 | 05/01/2014 0900 |
| 480-59007-2 | 1-3 | Water | 04/23/2014 1545 | 05/01/2014 0900 |
| 480-59007-3 | TRIP BLANK | Water | 04/23/2014 0000 | 05/01/2014 0900 |

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

| Lab Sample ID | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---------------|------------------|--------|-----------|-----------------|-------|--------|
|---------------|------------------|--------|-----------|-----------------|-------|--------|

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

| Description | Lab Location | Method | Preparation Method |
|-------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS | TAL BUF | SW846 8260C | |
| Purge and Trap | TAL BUF | | SW846 5030C |

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

| Method | Analyst | Analyst ID |
|---------------|------------------|-------------------|
| SW846 8260C | Quirk, Patrick J | PJQ |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: 1-2

Lab Sample ID: 480-59007-1

Date Sampled: 04/23/2014 1340

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1619.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0353 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0353 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: 1-2

Lab Sample ID: 480-59007-1

Date Sampled: 04/23/2014 1340

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1619.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0353 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0353 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 86 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 114 | | 73 - 120 |
| Toluene-d8 (Surr) | 94 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 95 | | 60 - 140 |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: 1-3

Lab Sample ID: 480-59007-2

Date Sampled: 04/23/2014 1545

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1620.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0414 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0414 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: 1-3

Lab Sample ID: 480-59007-2

Date Sampled: 04/23/2014 1545

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1620.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0414 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0414 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 85 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 114 | | 73 - 120 |
| Toluene-d8 (Surr) | 93 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 91 | | 60 - 140 |

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59007-3

Date Sampled: 04/23/2014 0000

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1621.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0435 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0435 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59007-3

Date Sampled: 04/23/2014 0000

Client Matrix: Water

Date Received: 05/01/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-179534 | Instrument ID: | HP5975D |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | D1621.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 05/02/2014 0435 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 05/02/2014 0435 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 83 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 113 | | 73 - 120 |
| Toluene-d8 (Surr) | 92 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 91 | | 60 - 140 |

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Surrogate Recovery Report**8260C Volatile Organic Compounds by GC/MS****Client Matrix: Water**

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|--------------------|------------------|--------------|-------------|-------------|-------------|
| 480-59007-1 | 1-2 | 95 | 86 | 94 | 114 |
| 480-59007-2 | 1-3 | 91 | 85 | 93 | 114 |
| 480-59007-3 | TRIP BLANK | 91 | 83 | 92 | 113 |
| MB 480-179534/5 | | 95 | 86 | 92 | 106 |
| LCS 480-179534/4 | | 94 | 87 | 94 | 112 |
| LCSD 480-179534/25 | | 92 | 85 | 95 | 115 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| DBFM = Dibromofluoromethane (Surr) | 60-140 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 66-137 |
| TOL = Toluene-d8 (Surr) | 71-126 |
| BFB = 4-Bromofluorobenzene (Surr) | 73-120 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Method Blank - Batch: 480-179534

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 480-179534/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/01/2014 2121
 Prep Date: 05/01/2014 2121
 Leach Date: N/A

Analysis Batch: 480-179534
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5975D
 Lab File ID: D1601.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------------------|--------|------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Method Blank - Batch: 480-179534

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 480-179534/5
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/01/2014 2121
 Prep Date: 05/01/2014 2121
 Leach Date: N/A

Analysis Batch: 480-179534
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5975D
 Lab File ID: D1601.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------|--------|------|------|-----|
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 86 | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 106 | 73 - 120 |
| Toluene-d8 (Surr) | 92 | 71 - 126 |
| Dibromofluoromethane (Surr) | 95 | 60 - 140 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

**Lab Control Sample/
Lab Control Sample Duplicate Recovery Report - Batch: 480-179534**

**Method: 8260C
Preparation: 5030C**

| | | |
|-------------------------------------|----------------------------|-----------------------------|
| LCS Lab Sample ID: LCS 480-179534/4 | Analysis Batch: 480-179534 | Instrument ID: HP5975D |
| Client Matrix: Water | Prep Batch: N/A | Lab File ID: D1600.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 05/01/2014 2100 | Units: ug/L | Final Weight/Volume: 5 mL |
| Prep Date: 05/01/2014 2100 | | 5 mL |
| Leach Date: N/A | | |

| | | |
|--|----------------------------|-----------------------------|
| LCSD Lab Sample ID: LCSD 480-179534/25 | Analysis Batch: 480-179534 | Instrument ID: HP5975D |
| Client Matrix: Water | Prep Batch: N/A | Lab File ID: D1602.D |
| Dilution: 1.0 | Leach Batch: N/A | Initial Weight/Volume: 5 mL |
| Analysis Date: 05/01/2014 2156 | Units: ug/L | Final Weight/Volume: 5 mL |
| Prep Date: 05/01/2014 2156 | | 5 mL |
| Leach Date: N/A | | |

| Analyte | % Rec. | | Limit | RPD | RPD Limit | LCS Qual | LCSD Qual |
|--------------------------|--------|------|----------|-----|-----------|----------|-----------|
| | LCS | LCSD | | | | | |
| 1,1-Dichloroethane | 104 | 103 | 71 - 129 | 1 | 20 | | |
| 1,1-Dichloroethene | 102 | 102 | 58 - 121 | 0 | 16 | | |
| 1,2,4-Trimethylbenzene | 102 | 103 | 76 - 121 | 0 | 20 | | |
| 1,2-Dichlorobenzene | 101 | 101 | 80 - 124 | 0 | 20 | | |
| 1,2-Dichloroethane | 104 | 100 | 75 - 127 | 4 | 20 | | |
| Benzene | 104 | 104 | 71 - 124 | 0 | 13 | | |
| Chlorobenzene | 99 | 101 | 72 - 120 | 2 | 25 | | |
| cis-1,2-Dichloroethene | 105 | 104 | 74 - 124 | 2 | 15 | | |
| Ethylbenzene | 100 | 102 | 77 - 123 | 2 | 15 | | |
| Methyl tert-butyl ether | 103 | 99 | 64 - 127 | 4 | 37 | | |
| Tetrachloroethene | 101 | 102 | 74 - 122 | 1 | 20 | | |
| Toluene | 100 | 101 | 80 - 122 | 1 | 15 | | |
| trans-1,2-Dichloroethene | 106 | 104 | 73 - 127 | 1 | 20 | | |
| Trichloroethene | 105 | 105 | 74 - 123 | 0 | 16 | | |

| Surrogate | LCS % Rec | LCSD % Rec | Acceptance Limits |
|------------------------------|-----------|------------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 87 | 85 | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 112 | 115 | 73 - 120 |
| Toluene-d8 (Surr) | 94 | 95 | 71 - 126 |
| Dibromofluoromethane (Surr) | 94 | 92 | 60 - 140 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

**Laboratory Control/
Laboratory Duplicate Data Report - Batch: 480-179534**

**Method: 8260C
Preparation: 5030C**

LCS Lab Sample ID: LCS 480-179534/4 Units: ug/L
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/01/2014 2100
 Prep Date: 05/01/2014 2100
 Leach Date: N/A

LCSD Lab Sample ID: LCSD 480-179534/25
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 05/01/2014 2156
 Prep Date: 05/01/2014 2156
 Leach Date: N/A

| Analyte | LCS Spike Amount | LCSD Spike Amount | LCS Result/Qual | LCSD Result/Qual |
|--------------------------|------------------|-------------------|-----------------|------------------|
| 1,1-Dichloroethane | 25.0 | 25.0 | 26.0 | 25.7 |
| 1,1-Dichloroethene | 25.0 | 25.0 | 25.4 | 25.4 |
| 1,2,4-Trimethylbenzene | 25.0 | 25.0 | 25.6 | 25.6 |
| 1,2-Dichlorobenzene | 25.0 | 25.0 | 25.2 | 25.3 |
| 1,2-Dichloroethane | 25.0 | 25.0 | 26.0 | 25.1 |
| Benzene | 25.0 | 25.0 | 26.0 | 25.9 |
| Chlorobenzene | 25.0 | 25.0 | 24.9 | 25.3 |
| cis-1,2-Dichloroethene | 25.0 | 25.0 | 26.4 | 25.9 |
| Ethylbenzene | 25.0 | 25.0 | 25.1 | 25.6 |
| Methyl tert-butyl ether | 25.0 | 25.0 | 25.8 | 24.8 |
| Tetrachloroethene | 25.0 | 25.0 | 25.3 | 25.5 |
| Toluene | 25.0 | 25.0 | 24.9 | 25.2 |
| trans-1,2-Dichloroethene | 25.0 | 25.0 | 26.4 | 26.1 |
| Trichloroethene | 25.0 | 25.0 | 26.4 | 26.3 |

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

| Lab Section | Qualifier | Description |
|--------------------|------------------|--------------------------------|
| GC/MS VOA | U | Analyzed for but not detected. |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|------------------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:480-179534 | | | | | |
| LCS 480-179534/4 | Lab Control Sample | T | Water | 8260C | |
| LCSD 480-179534/25 | Lab Control Sample Duplicate | T | Water | 8260C | |
| MB 480-179534/5 | Method Blank | T | Water | 8260C | |
| 480-59007-1 | 1-2 | T | Water | 8260C | |
| 480-59007-2 | 1-3 | T | Water | 8260C | |
| 480-59007-3 | TRIP BLANK | T | Water | 8260C | |

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Laboratory Chronicle

Lab ID: 480-59007-1

Client ID: 1-2

Sample Date/Time: 04/23/2014 13:40

Received Date/Time: 05/01/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-59007-A-1 | | 480-179534 | | 05/02/2014 03:53 | 1 | TAL BUF | PJQ |
| A:8260C | 480-59007-A-1 | | 480-179534 | | 05/02/2014 03:53 | 1 | TAL BUF | PJQ |

Lab ID: 480-59007-2

Client ID: 1-3

Sample Date/Time: 04/23/2014 15:45

Received Date/Time: 05/01/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-59007-A-2 | | 480-179534 | | 05/02/2014 04:14 | 1 | TAL BUF | PJQ |
| A:8260C | 480-59007-A-2 | | 480-179534 | | 05/02/2014 04:14 | 1 | TAL BUF | PJQ |

Lab ID: 480-59007-3

Client ID: TRIP BLANK

Sample Date/Time: 04/23/2014 00:00

Received Date/Time: 05/01/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-59007-A-3 | | 480-179534 | | 05/02/2014 04:35 | 1 | TAL BUF | PJQ |
| A:8260C | 480-59007-A-3 | | 480-179534 | | 05/02/2014 04:35 | 1 | TAL BUF | PJQ |

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|-----------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | MB 480-179534/5 | | 480-179534 | | 05/01/2014 21:21 | 1 | TAL BUF | PJQ |
| A:8260C | MB 480-179534/5 | | 480-179534 | | 05/01/2014 21:21 | 1 | TAL BUF | PJQ |

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | LCS 480-179534/4 | | 480-179534 | | 05/01/2014 21:00 | 1 | TAL BUF | PJQ |
| A:8260C | LCS 480-179534/4 | | 480-179534 | | 05/01/2014 21:00 | 1 | TAL BUF | PJQ |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Laboratory Chronicle

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|--------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | LCSD 480-179534/25 | | 480-179534 | | 05/01/2014 21:56 | 1 | TAL BUF | PJQ |
| A:8260C | LCSD 480-179534/25 | | 480-179534 | | 05/01/2014 21:56 | 1 | TAL BUF | PJQ |

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Well 1-1A Sampling LMCO

TestAmerica Job ID: 480-59007-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---------------------|-------------------|---------------|------------|------------------|
| TestAmerica Buffalo | Arkansas DEQ | State Program | 6 | 88-0686 |
| TestAmerica Buffalo | California | State Program | 9 | 1169CA |
| TestAmerica Buffalo | Connecticut | State Program | 1 | PH-0568 |
| TestAmerica Buffalo | Florida | NELAP | 4 | E87672 |
| TestAmerica Buffalo | Georgia | State Program | 4 | 956 |
| TestAmerica Buffalo | Georgia | State Program | 4 | N/A |
| TestAmerica Buffalo | Illinois | NELAP | 5 | 200003 |
| TestAmerica Buffalo | Iowa | State Program | 7 | 374 |
| TestAmerica Buffalo | Kansas | NELAP | 7 | E-10187 |
| TestAmerica Buffalo | Kentucky (DW) | State Program | 4 | 90029 |
| TestAmerica Buffalo | Kentucky (UST) | State Program | 4 | 30 |
| TestAmerica Buffalo | Louisiana | NELAP | 6 | 02031 |
| TestAmerica Buffalo | Maine | State Program | 1 | NY00044 |
| TestAmerica Buffalo | Maryland | State Program | 3 | 294 |
| TestAmerica Buffalo | Massachusetts | State Program | 1 | M-NY044 |
| TestAmerica Buffalo | Michigan | State Program | 5 | 9937 |
| TestAmerica Buffalo | Minnesota | NELAP | 5 | 036-999-337 |
| TestAmerica Buffalo | New Hampshire | NELAP | 1 | 2337 |
| TestAmerica Buffalo | New Hampshire | NELAP | 1 | 2973 |
| TestAmerica Buffalo | New Jersey | NELAP | 2 | NY455 |
| TestAmerica Buffalo | New York | NELAP | 2 | 10026 |
| TestAmerica Buffalo | North Dakota | State Program | 8 | R-176 |
| TestAmerica Buffalo | Oklahoma | State Program | 6 | 9421 |
| TestAmerica Buffalo | Oregon | NELAP | 10 | NY200003 |
| TestAmerica Buffalo | Pennsylvania | NELAP | 3 | 68-00281 |
| TestAmerica Buffalo | Rhode Island | State Program | 1 | LAO00328 |
| TestAmerica Buffalo | Tennessee | State Program | 4 | TN02970 |
| TestAmerica Buffalo | Texas | NELAP | 6 | T104704412-11-2 |
| TestAmerica Buffalo | USDA | Federal | | P330-11-00386 |
| TestAmerica Buffalo | Virginia | NELAP | 3 | 460185 |
| TestAmerica Buffalo | Washington | State Program | 10 | C784 |
| TestAmerica Buffalo | West Virginia DEP | State Program | 3 | 252 |
| TestAmerica Buffalo | Wisconsin | State Program | 5 | 998310390 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RTX-CLPII ID: 0.53 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|------------------|-----------------------|--------|-------|-------|-------|
| 1-2 | 480-59007-1 | 95 | 86 | 94 | 114 |
| 1-3 | 480-59007-2 | 91 | 85 | 93 | 114 |
| TRIP BLANK | 480-59007-3 | 91 | 83 | 92 | 113 |
| | MB 480-179534/5 | 95 | 86 | 92 | 106 |
| | LCS 480-179534/4 | 94 | 87 | 94 | 112 |
| | LCSD 480-179534/25 | 92 | 85 | 95 | 115 |

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

QC LIMITS
60-140
66-137
71-126
73-120

Column to be used to flag recovery values

FORM II 8260C

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: D1600.D
 Lab ID: LCS 480-179534/4 Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|--------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1-Dichloroethane | 25.0 | 26.0 | 104 | 71-129 | |
| 1,1-Dichloroethene | 25.0 | 25.4 | 102 | 58-121 | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.6 | 102 | 76-121 | |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | 101 | 80-124 | |
| 1,2-Dichloroethane | 25.0 | 26.0 | 104 | 75-127 | |
| Benzene | 25.0 | 26.0 | 104 | 71-124 | |
| Chlorobenzene | 25.0 | 24.9 | 99 | 72-120 | |
| cis-1,2-Dichloroethene | 25.0 | 26.4 | 105 | 74-124 | |
| Ethylbenzene | 25.0 | 25.1 | 100 | 77-123 | |
| Methyl tert-butyl ether | 25.0 | 25.8 | 103 | 64-127 | |
| Tetrachloroethene | 25.0 | 25.3 | 101 | 74-122 | |
| Toluene | 25.0 | 24.9 | 100 | 80-122 | |
| trans-1,2-Dichloroethene | 25.0 | 26.4 | 106 | 73-127 | |
| Trichloroethene | 25.0 | 26.4 | 105 | 74-123 | |

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: D1602.D
 Lab ID: LCSD 480-179534/25 Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCSD CONCENTRATION (ug/L) | LCSD % REC | % RPD | QC LIMITS | | # |
|--------------------------|--------------------------|---------------------------------|------------------|----------|-----------|--------|---|
| | | | | | RPD | REC | |
| 1,1-Dichloroethane | 25.0 | 25.7 | 103 | 1 | 20 | 71-129 | |
| 1,1-Dichloroethene | 25.0 | 25.4 | 102 | 0 | 16 | 58-121 | |
| 1,2,4-Trimethylbenzene | 25.0 | 25.6 | 103 | 0 | 20 | 76-121 | |
| 1,2-Dichlorobenzene | 25.0 | 25.3 | 101 | 0 | 20 | 80-124 | |
| 1,2-Dichloroethane | 25.0 | 25.1 | 100 | 4 | 20 | 75-127 | |
| Benzene | 25.0 | 25.9 | 104 | 0 | 13 | 71-124 | |
| Chlorobenzene | 25.0 | 25.3 | 101 | 2 | 25 | 72-120 | |
| cis-1,2-Dichloroethene | 25.0 | 25.9 | 104 | 2 | 15 | 74-124 | |
| Ethylbenzene | 25.0 | 25.6 | 102 | 2 | 15 | 77-123 | |
| Methyl tert-butyl ether | 25.0 | 24.8 | 99 | 4 | 37 | 64-127 | |
| Tetrachloroethene | 25.0 | 25.5 | 102 | 1 | 20 | 74-122 | |
| Toluene | 25.0 | 25.2 | 101 | 1 | 15 | 80-122 | |
| trans-1,2-Dichloroethene | 25.0 | 26.1 | 104 | 1 | 20 | 73-127 | |
| Trichloroethene | 25.0 | 26.3 | 105 | 0 | 16 | 74-123 | |

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab File ID: D1601.D Lab Sample ID: MB 480-179534/5
 Matrix: Water Heated Purge: (Y/N) N
 Instrument ID: HP5975D Date Analyzed: 05/01/2014 21:21
 GC Column: RTX-CLPII ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|------------------|--------------------|----------------|------------------|
| | LCS 480-179534/4 | D1600.D | 05/01/2014 21:00 |
| | LCSD 480-179534/25 | D1602.D | 05/01/2014 21:56 |
| 1-2 | 480-59007-1 | D1619.D | 05/02/2014 03:53 |
| 1-3 | 480-59007-2 | D1620.D | 05/02/2014 04:14 |
| TRIP BLANK | 480-59007-3 | D1621.D | 05/02/2014 04:35 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab File ID: D1207.D BFB Injection Date: 04/22/2014
 Instrument ID: HP5975D BFB Injection Time: 04:32
 Analysis Batch No.: 177332

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0 % of mass 95 | 21.1 |
| 75 | 30.0 - 60.0 % of mass 95 | 50.1 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0 % of mass 95 | 6.6 |
| 173 | Less than 2.0 % of mass 174 | 0.5 (0.7)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 78.5 |
| 175 | 5.0 - 9.0 % of mass 174 | 6.0 (7.6)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 76.8 (97.9)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.1 (6.6)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|-------------------|-------------|---------------|---------------|
| | IC 480-177332/4 | D1209.D | 04/22/2014 | 05:18 |
| | IC 480-177332/5 | D1210.D | 04/22/2014 | 05:39 |
| | IC 480-177332/6 | D1211.D | 04/22/2014 | 06:01 |
| | IC 480-177332/7 | D1212.D | 04/22/2014 | 06:22 |
| | ICIS 480-177332/8 | D1213.D | 04/22/2014 | 06:43 |
| | IC 480-177332/9 | D1214.D | 04/22/2014 | 07:04 |
| | IC 480-177332/10 | D1215.D | 04/22/2014 | 07:25 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab File ID: D1597.D BFB Injection Date: 05/01/2014
 Instrument ID: HP5975D BFB Injection Time: 19:44
 Analysis Batch No.: 179534

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0 % of mass 95 | 21.4 |
| 75 | 30.0 - 60.0 % of mass 95 | 49.5 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0 % of mass 95 | 6.7 |
| 173 | Less than 2.0 % of mass 174 | 0.5 (0.6)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 81.0 |
| 175 | 5.0 - 9.0 % of mass 174 | 5.8 (7.2)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 78.0 (96.3)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.2 (6.7)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
| | CCVIS 480-179534/2 | D1598.D | 05/01/2014 | 20:06 |
| | LCS 480-179534/4 | D1600.D | 05/01/2014 | 21:00 |
| | MB 480-179534/5 | D1601.D | 05/01/2014 | 21:21 |
| | LCSD 480-179534/25 | D1602.D | 05/01/2014 | 21:56 |
| 1-2 | 480-59007-1 | D1619.D | 05/02/2014 | 03:53 |
| 1-3 | 480-59007-2 | D1620.D | 05/02/2014 | 04:14 |
| TRIP BLANK | 480-59007-3 | D1621.D | 05/02/2014 | 04:35 |

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Sample No.: ICIS 480-177332/8 Date Analyzed: 04/22/2014 06:43
 Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53(mm)
 Lab File ID (Standard): D1213.D Heated Purge: (Y/N) N
 Calibration ID: 18122

| | FB | | CBZ | | DCB | |
|-------------------------------|------------------|------|--------|------|--------|------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | 151606 | 4.83 | 293975 | 7.15 | 255178 | 9.06 |
| UPPER LIMIT | 303212 | 5.33 | 587950 | 7.65 | 510356 | 9.56 |
| LOWER LIMIT | 75803 | 4.33 | 146988 | 6.65 | 127589 | 8.56 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | |
| CCVIS 480-179534/2 | 171609 | 4.82 | 351145 | 7.15 | 313760 | 9.05 |

FB = Fluorobenzene (IS)

CBZ = Chlorobenzene-d5

DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area

RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Sample No.: CCVIS 480-179534/2 Date Analyzed: 05/01/2014 20:06
 Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53(mm)
 Lab File ID (Standard): D1598.D Heated Purge: (Y/N) N
 Calibration ID: 18125

| | FB | | CBZ | | DCB | | |
|--------------------|------------------|--------|--------|--------|--------|--------|------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # | |
| 12/24 HOUR STD | 171609 | 4.82 | 351145 | 7.15 | 313760 | 9.05 | |
| UPPER LIMIT | 343218 | 5.32 | 702290 | 7.65 | 627520 | 9.55 | |
| LOWER LIMIT | 85805 | 4.32 | 175573 | 6.65 | 156880 | 8.55 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 480-179534/4 | 158333 | 4.82 | 328372 | 7.15 | 285095 | 9.05 | |
| MB 480-179534/5 | 154152 | 4.82 | 306125 | 7.15 | 268218 | 9.05 | |
| LCSD 480-179534/25 | 158435 | 4.82 | 318078 | 7.15 | 278417 | 9.05 | |
| 480-59007-1 | 1-2 | 149016 | 4.83 | 288801 | 7.15 | 255531 | 9.05 |
| 480-59007-2 | 1-3 | 157708 | 4.83 | 312971 | 7.15 | 274940 | 9.05 |
| 480-59007-3 | TRIP BLANK | 154332 | 4.83 | 305404 | 7.15 | 265823 | 9.05 |

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: 1-2 Lab Sample ID: 480-59007-1
 Matrix: Water Lab File ID: D1619.D
 Analysis Method: 8260C Date Collected: 04/23/2014 13:40
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 03:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: 1-2 Lab Sample ID: 480-59007-1
 Matrix: Water Lab File ID: D1619.D
 Analysis Method: 8260C Date Collected: 04/23/2014 13:40
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 03:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 114 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1619.D
 Lims ID: 480-59007-A-1 Lab Sample ID: 480-59007-1
 Client ID: 1-2
 Sample Type: Client
 Inject. Date: 02-May-2014 03:53:30 ALS Bottle#: 18 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-59007-A-1
 Misc. Info.: 480-0031670-022
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 10:09:45 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quirkp

Date: 02-May-2014 10:11:52

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.819 | 0.006 | 98 | 149016 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.147 | 7.147 | 0.000 | 87 | 288801 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.050 | 9.049 | 0.001 | 96 | 255531 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.337 | 0.006 | 58 | 210020 | 23.6 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.587 | 0.006 | 0 | 124609 | 21.4 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.014 | 6.007 | 0.007 | 94 | 756347 | 23.5 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.099 | 8.098 | 0.001 | 88 | 274738 | 28.6 | |
| 10 Dichlorodifluoromethane | 85 | | 1.325 | | | | | |
| 12 Chloromethane | 50 | | 1.435 | | | | | |
| 13 Vinyl chloride | 62 | | 1.539 | | | | | |
| 14 Bromomethane | 94 | | 1.801 | | | | | |
| 15 Chloroethane | 64 | | 1.898 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.118 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 2.490 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | | 2.545 | | | | | |
| 23 Acetone | 43 | | 2.587 | | | | | |
| 26 Carbon disulfide | 76 | | 2.667 | | | | | |
| 27 Methyl acetate | 43 | | 2.856 | | | | | |
| 30 Methylene Chloride | 84 | | 2.935 | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 3.136 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.142 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 3.490 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 3.959 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 3.983 | | | | | |
| 50 Chloroform | 83 | | 4.209 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 4.319 | | | | | |
| 52 Cyclohexane | 56 | | 4.337 | | | | | |
| 55 Carbon tetrachloride | 117 | | 4.435 | | | | | |
| 57 Benzene | 78 | | 4.605 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 4.648 | | | | | |
| 1 1,4-Difluorobenzene | 114 | | 4.904 | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 62 Trichloroethene | 95 | | 5.093 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.203 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 5.276 | | | | | |
| 68 Dichlorobromomethane | 83 | | 5.501 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 5.825 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 5.934 | | | | | |
| 74 Toluene | 92 | | 6.062 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 6.257 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 6.410 | | | | | |
| 81 Tetrachloroethene | 166 | | 6.483 | | | | | |
| 80 2-Hexanone | 43 | | 6.580 | | | | | |
| 83 Chlorodibromomethane | 129 | | 6.721 | | | | | |
| 84 Ethylene Dibromide | 107 | | 6.806 | | | | | |
| 87 Chlorobenzene | 112 | | 7.172 | | | | | |
| 88 Ethylbenzene | 91 | | 7.239 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 7.330 | | | | | |
| 91 o-Xylene | 106 | | 7.653 | | | | | |
| 92 Styrene | 104 | | 7.672 | | | | | |
| 95 Bromoform | 173 | | 7.861 | | | | | |
| 94 Isopropylbenzene | 105 | | 7.946 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 8.239 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 8.422 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.739 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 8.995 | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 9.068 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 9.385 | | | | | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 10.055 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.726 | | | | | |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1619.D

Injection Date: 02-May-2014 03:53:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: 480-59007-A-1

Lab Sample ID: 480-59007-1

Worklist Smp#: 22

Client ID: 1-2

Purge Vol: 5.000 mL

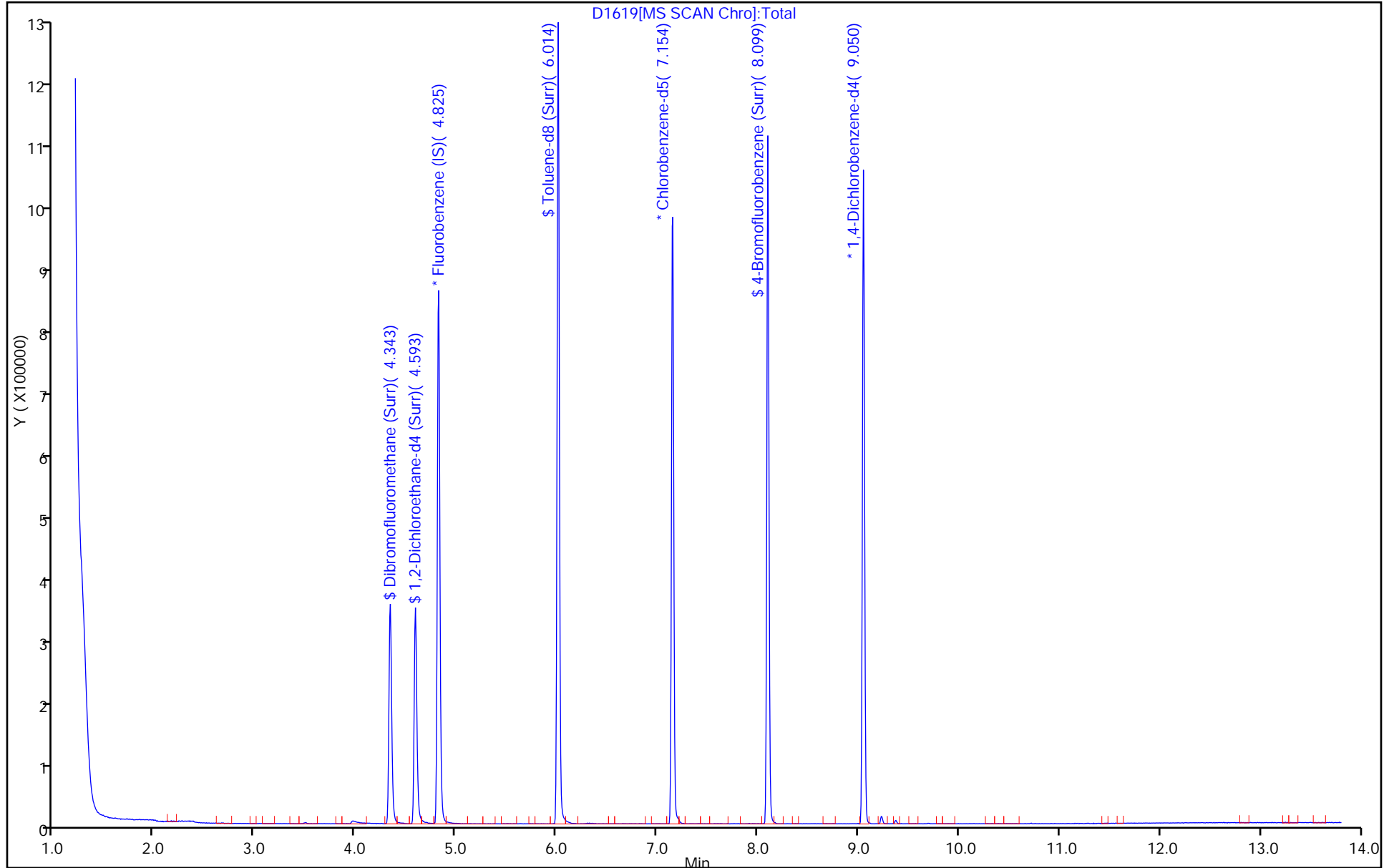
Dil. Factor: 1.0000

ALS Bottle#: 18

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: 1-3 Lab Sample ID: 480-59007-2
 Matrix: Water Lab File ID: D1620.D
 Analysis Method: 8260C Date Collected: 04/23/2014 15:45
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 04:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: 1-3 Lab Sample ID: 480-59007-2
 Matrix: Water Lab File ID: D1620.D
 Analysis Method: 8260C Date Collected: 04/23/2014 15:45
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 04:14
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 85 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 114 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 93 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 91 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1620.D
 Lims ID: 480-59007-A-2 Lab Sample ID: 480-59007-2
 Client ID: 1-3
 Sample Type: Client
 Inject. Date: 02-May-2014 04:14:30 ALS Bottle#: 19 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-59007-A-2
 Misc. Info.: 480-0031670-023
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 10:09:45 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quirkp

Date: 02-May-2014 10:12:06

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.819 | 0.006 | 98 | 157708 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.153 | 7.147 | 0.006 | 86 | 312971 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 96 | 274940 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.337 | 0.006 | 58 | 214416 | 22.8 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.587 | 0.006 | 0 | 130308 | 21.1 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.013 | 6.007 | 0.006 | 93 | 812576 | 23.3 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 88 | 295562 | 28.4 | |
| 10 Dichlorodifluoromethane | 85 | | 1.325 | | | | | |
| 12 Chloromethane | 50 | | 1.435 | | | | | |
| 13 Vinyl chloride | 62 | | 1.539 | | | | | |
| 14 Bromomethane | 94 | | 1.801 | | | | | |
| 15 Chloroethane | 64 | | 1.898 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.118 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 2.490 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | | 2.545 | | | | | |
| 23 Acetone | 43 | | 2.587 | | | | | |
| 26 Carbon disulfide | 76 | | 2.667 | | | | | |
| 27 Methyl acetate | 43 | | 2.856 | | | | | |
| 30 Methylene Chloride | 84 | | 2.935 | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 3.136 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.142 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 3.490 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 3.959 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 3.983 | | | | | |
| 50 Chloroform | 83 | | 4.209 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 4.319 | | | | | |
| 52 Cyclohexane | 56 | | 4.337 | | | | | |
| 55 Carbon tetrachloride | 117 | | 4.435 | | | | | |
| 57 Benzene | 78 | | 4.605 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 4.648 | | | | | |
| 1 1,4-Difluorobenzene | 114 | | 4.904 | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 62 Trichloroethene | 95 | | 5.093 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.203 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 5.276 | | | | | |
| 68 Dichlorobromomethane | 83 | | 5.501 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 5.825 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 5.934 | | | | | |
| 74 Toluene | 92 | | 6.062 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 6.257 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 6.410 | | | | | |
| 81 Tetrachloroethene | 166 | | 6.483 | | | | | |
| 80 2-Hexanone | 43 | | 6.580 | | | | | |
| 83 Chlorodibromomethane | 129 | | 6.721 | | | | | |
| 84 Ethylene Dibromide | 107 | | 6.806 | | | | | |
| 87 Chlorobenzene | 112 | | 7.172 | | | | | |
| 88 Ethylbenzene | 91 | | 7.239 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 7.330 | | | | | |
| 91 o-Xylene | 106 | | 7.653 | | | | | |
| 92 Styrene | 104 | | 7.672 | | | | | |
| 95 Bromoform | 173 | | 7.861 | | | | | |
| 94 Isopropylbenzene | 105 | | 7.946 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 8.239 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 8.422 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.739 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 8.995 | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 9.068 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 9.385 | | | | | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 10.055 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.726 | | | | | |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1620.D

Injection Date: 02-May-2014 04:14:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: 480-59007-A-2

Lab Sample ID: 480-59007-2

Worklist Smp#: 23

Client ID: 1-3

Purge Vol: 5.000 mL

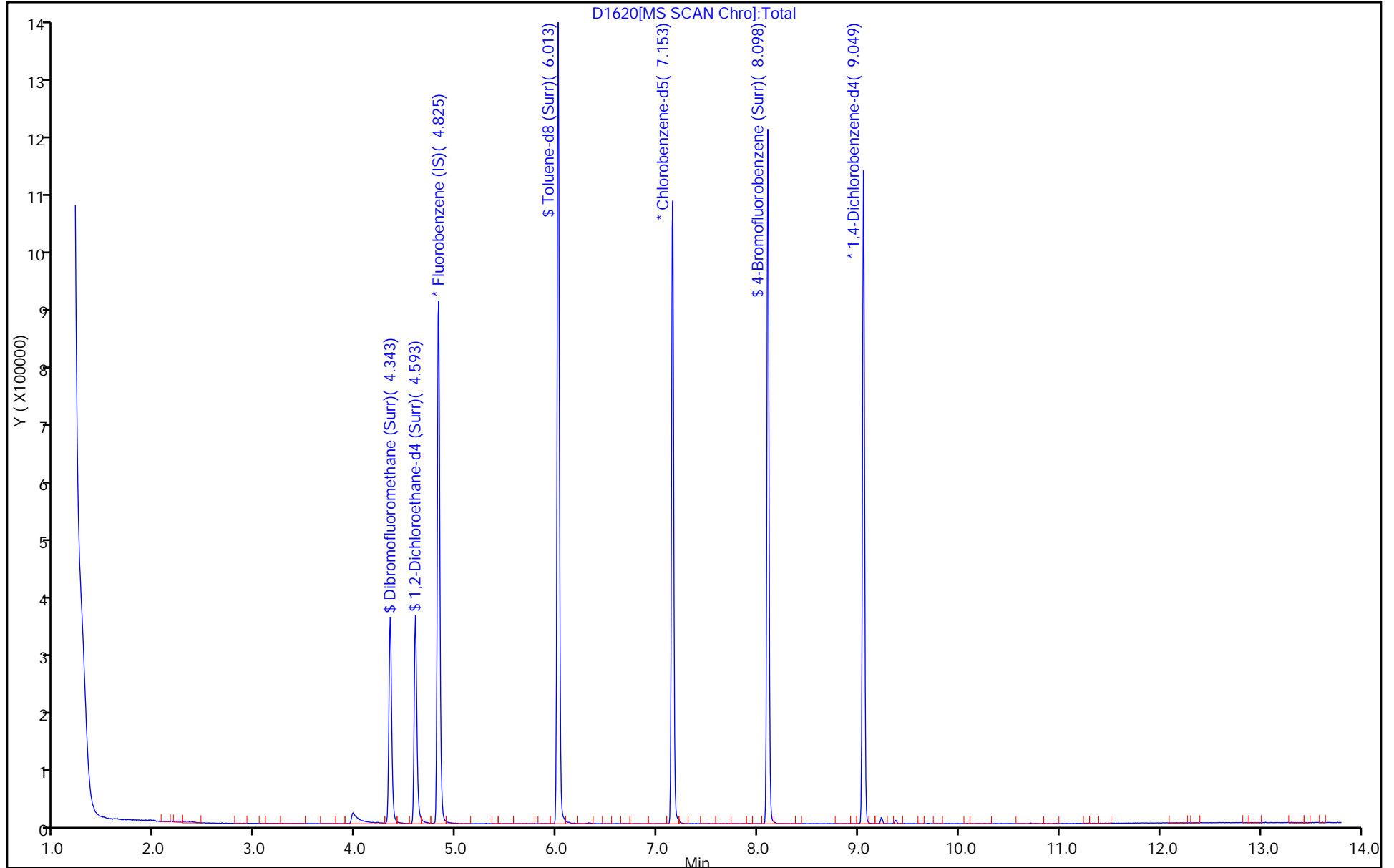
Dil. Factor: 1.0000

ALS Bottle#: 19

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-59007-3
 Matrix: Water Lab File ID: D1621.D
 Analysis Method: 8260C Date Collected: 04/23/2014 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 04:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-59007-3
 Matrix: Water Lab File ID: D1621.D
 Analysis Method: 8260C Date Collected: 04/23/2014 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 05/02/2014 04:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 83 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 113 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 91 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1621.D
 Lims ID: 480-59007-A-3 Lab Sample ID: 480-59007-3
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 02-May-2014 04:35:30 ALS Bottle#: 20 Worklist Smp#: 24
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-59007-A-3
 Misc. Info.: 480-0031670-024
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 10:09:45 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK035

First Level Reviewer: quirkp

Date: 02-May-2014 10:12:19

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.819 | 0.006 | 98 | 154332 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.153 | 7.147 | 0.006 | 86 | 305404 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 96 | 265823 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.337 | 0.006 | 58 | 209500 | 22.8 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.587 | 0.006 | 0 | 124510 | 20.6 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.013 | 6.007 | 0.006 | 94 | 782924 | 23.0 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 88 | 286046 | 28.2 | |
| 10 Dichlorodifluoromethane | 85 | | 1.325 | | | | | |
| 12 Chloromethane | 50 | | 1.435 | | | | | |
| 13 Vinyl chloride | 62 | | 1.539 | | | | | |
| 14 Bromomethane | 94 | | 1.801 | | | | | |
| 15 Chloroethane | 64 | | 1.898 | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.118 | | | | | |
| 22 1,1-Dichloroethene | 96 | | 2.490 | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | | 2.545 | | | | | |
| 23 Acetone | 43 | | 2.587 | | | | | |
| 26 Carbon disulfide | 76 | | 2.667 | | | | | |
| 27 Methyl acetate | 43 | | 2.856 | | | | | |
| 30 Methylene Chloride | 84 | | 2.935 | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 3.136 | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.142 | | | | | |
| 39 1,1-Dichloroethane | 63 | | 3.490 | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 3.959 | | | | | |
| 43 2-Butanone (MEK) | 43 | | 3.983 | | | | | |
| 50 Chloroform | 83 | | 4.209 | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 4.319 | | | | | |
| 52 Cyclohexane | 56 | | 4.337 | | | | | |
| 55 Carbon tetrachloride | 117 | | 4.435 | | | | | |
| 57 Benzene | 78 | | 4.605 | | | | | |
| 58 1,2-Dichloroethane | 62 | | 4.648 | | | | | |
| 1 1,4-Difluorobenzene | 114 | | 4.904 | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 62 Trichloroethene | 95 | | 5.093 | | | | | |
| 64 Methylcyclohexane | 83 | | 5.203 | | | | | |
| 65 1,2-Dichloropropane | 63 | | 5.276 | | | | | |
| 68 Dichlorobromomethane | 83 | | 5.501 | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 5.825 | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 5.934 | | | | | |
| 74 Toluene | 92 | | 6.062 | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 6.257 | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 6.410 | | | | | |
| 81 Tetrachloroethene | 166 | | 6.483 | | | | | |
| 80 2-Hexanone | 43 | | 6.580 | | | | | |
| 83 Chlorodibromomethane | 129 | | 6.721 | | | | | |
| 84 Ethylene Dibromide | 107 | | 6.806 | | | | | |
| 87 Chlorobenzene | 112 | | 7.172 | | | | | |
| 88 Ethylbenzene | 91 | | 7.239 | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 7.330 | | | | | |
| 91 o-Xylene | 106 | | 7.653 | | | | | |
| 92 Styrene | 104 | | 7.672 | | | | | |
| 95 Bromoform | 173 | | 7.861 | | | | | |
| 94 Isopropylbenzene | 105 | | 7.946 | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 8.239 | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 8.422 | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.739 | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 8.995 | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 9.068 | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 9.385 | | | | | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 10.055 | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.726 | | | | | |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1621.D

Injection Date: 02-May-2014 04:35:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: 480-59007-A-3

Lab Sample ID: 480-59007-3

Worklist Smp#: 24

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

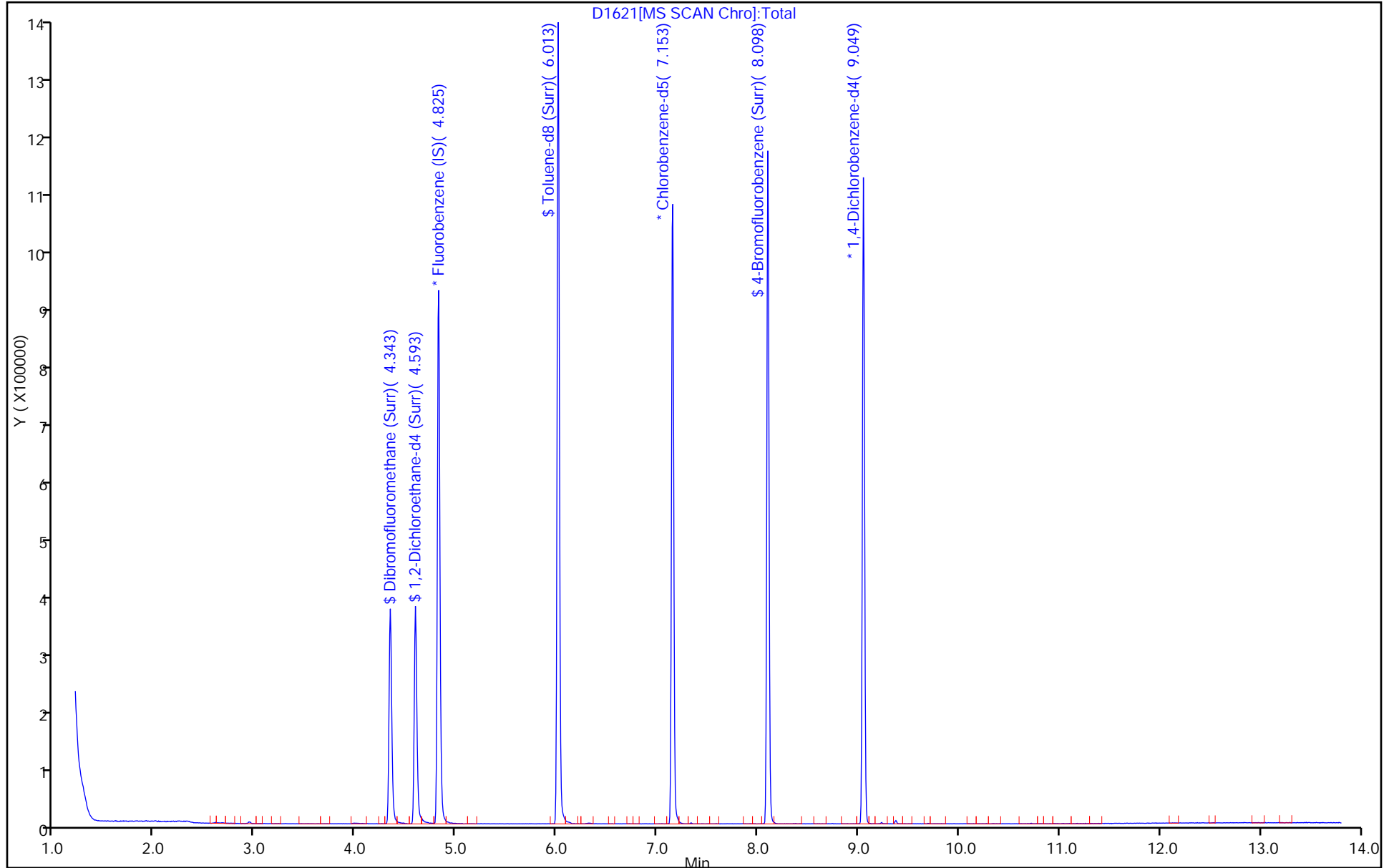
Dil. Factor: 1.0000

ALS Bottle#: 20

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 480-177332/5 | D1210.D |
| Level 2 | IC 480-177332/6 | D1211.D |
| Level 3 | IC 480-177332/7 | D1212.D |
| Level 4 | IC 480-177332/4 | D1209.D |
| Level 5 | ICIS 480-177332/8 | D1213.D |
| Level 6 | IC 480-177332/9 | D1214.D |
| Level 7 | IC 480-177332/10 | D1215.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|---------------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|----|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 1.4387 1.4699 | 1.5727 1.3434 | 1.4500 | | 1.5448 | Ave | 1.4699 | | | 0.1000 | 5.6 | | 20.0 | | | | |
| Chloromethane | 2.5250 2.0526 | 2.3817 1.8199 | 2.1284 | | 2.1719 | Ave | 2.1799 | | | 0.1000 | 11.0 | | 20.0 | | | | |
| Vinyl chloride | 2.1435 1.9146 | 2.0790 1.7299 | 1.9143 | 2.5795 | 2.0240 | Ave | 2.0550 | | | 0.1000 | 13.0 | | 20.0 | | | | |
| Butadiene | 2.3464 1.9126 | 2.2711 1.7245 | 2.0062 | | 2.0365 | Ave | 2.0495 | | | | 11.0 | | 20.0 | | | | |
| Bromomethane | 1.1142 1.0073 | 1.1173 0.9168 | 0.9734 | | 1.0928 | Ave | 1.0370 | | | 0.1000 | 8.1 | | 20.0 | | | | |
| Chloroethane | 1.1285 1.1053 | 1.2525 1.0103 | 1.1134 | | 1.1645 | Ave | 1.1291 | | | 0.1000 | 7.0 | | 20.0 | | | | |
| Dichlorofluoromethane | 2.6748 2.5457 | 2.7736 2.2324 | 2.4972 | | 2.6866 | Ave | 2.5684 | | | | 7.5 | | 20.0 | | | | |
| Trichlorofluoromethane | 1.2752 1.8228 | 1.6104 1.7137 | 1.5162 | | 1.8100 | Ave | 1.6247 | | | 0.1000 | 13.0 | | 20.0 | | | | |
| Ethyl ether | 1.5462 1.5274 | 1.5820 1.3992 | 1.5230 | | 1.5526 | Ave | 1.5218 | | | | 4.2 | | 20.0 | | | | |
| Acrolein | 0.1621 0.1980 | 0.1720 0.1931 | 0.1738 | | 0.1969 | Ave | 0.1827 | | | | 8.3 | | 20.0 | | | | |
| 1,1-Dichloroethene | 1.6190 1.5010 | 1.5781 1.3444 | 1.4675 | | 1.5329 | Ave | 1.5071 | | | 0.1000 | 6.4 | | 20.0 | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.4993 1.5657 | 1.6987 1.4517 | 1.5617 | | 1.6261 | Ave | 1.5672 | | | 0.1000 | 5.6 | | 20.0 | | | | |
| Acetone | 0.6131 0.3512 | 0.4544 0.3924 | 0.4150 | | 0.4283 | Ave | 0.4424 | | | 0.1000 | 20.0 | | 20.0 | | | | |
| Iodomethane | 2.7043 2.5633 | 2.7216 2.2646 | 2.5136 | | 2.6599 | Ave | 2.5712 | | | | 6.6 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-59007-1

Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D

GC Column: RTX-CLPII ID: 0.53 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18

Calibration End Date: 04/22/2014 07:25

Calibration ID: 18122

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Carbon disulfide | 5.5381 5.2787 | 5.7440 4.6449 | 5.1698 | | 5.4673 | Ave | | 5.3071 | | | 0.1000 | 7.2 | 20.0 | | | | |
| Allyl chloride | 3.1499 2.9348 | 3.1427 2.6510 | 2.9119 | | 3.0052 | Ave | | 2.9659 | | | | 6.2 | 20.0 | | | | |
| Methyl acetate | 1.4032 1.3080 | 1.4134 1.4542 | 1.4001 | | 1.3796 | Ave | | 1.3931 | | | 0.1000 | 3.5 | 20.0 | | | | |
| Methylene Chloride | 1.7259 1.5859 | 1.7633 1.4850 | 1.6387 | | 1.7163 | Ave | | 1.6525 | | | 0.1000 | 6.3 | 20.0 | | | | |
| 2-Methyl-2-propanol | 0.0954 0.0699 | 0.0972 0.0771 | 0.0925 | | 0.0886 | Ave | | 0.0868 | | | | 13.0 | 20.0 | | | | |
| Methyl tert-butyl ether | 5.0800 5.1893 | 5.3569 4.5977 | 5.1222 | | 5.2667 | Ave | | 5.1021 | | | 0.1000 | 5.2 | 20.0 | | | | |
| trans-1,2-Dichloroethene | 1.6032 1.5903 | 1.7002 1.4175 | 1.5935 | | 1.6402 | Ave | | 1.5908 | | | 0.1000 | 5.9 | 20.0 | | | | |
| Acrylonitrile | 0.7792 0.6214 | 0.7117 0.6187 | 0.6715 | 0.9391 | 0.6482 | Ave | | 0.7128 | | | | 16.0 | 20.0 | | | | |
| Hexane | 3.0496 2.7515 | 3.0408 2.5184 | 2.7164 | | 2.7871 | Ave | | 2.8106 | | | | 7.3 | 20.0 | | | | |
| 1,1-Dichloroethane | 3.3844 3.1873 | 3.4560 2.8490 | 3.1954 | | 3.2900 | Ave | | 3.2270 | | | 0.2000 | 6.6 | 20.0 | | | | |
| Vinyl acetate | 4.0862 3.7542 | 3.9220 3.7109 | 3.9507 | | 3.7706 | Ave | | 3.8658 | | | | 3.7 | 20.0 | | | | |
| 2,2-Dichloropropane | 1.6890 1.5329 | 1.7686 1.2658 | 1.5777 | | 1.6510 | Ave | | 1.5808 | | | | 11.0 | 20.0 | | | | |
| cis-1,2-Dichloroethene | 1.7392 1.7109 | 1.8476 1.5498 | 1.7055 | | 1.7942 | Ave | | 1.7245 | | | 0.1000 | 5.9 | 20.0 | | | | |
| 2-Butanone (MEK) | 1.0137 0.8523 | 0.9093 0.8597 | 0.8555 | | 0.8661 | Ave | | 0.8928 | | | 0.1000 | 7.0 | 20.0 | | | | |
| Chlorobromomethane | 0.8774 0.8582 | 0.9075 0.7906 | 0.8580 | | 0.8815 | Ave | | 0.8622 | | | | 4.6 | 20.0 | | | | |
| Tetrahydrofuran | 0.6950 0.5339 | 0.6203 0.5428 | 0.5937 | | 0.5480 | Ave | | 0.5890 | | | | 10.0 | 20.0 | | | | |
| Chloroform | 3.0017 2.8462 | 3.0724 2.5562 | 2.8532 | | 2.9228 | Ave | | 2.8754 | | | 0.2000 | 6.2 | 20.0 | | | | |
| 1,1,1-Trichloroethane | 2.3191 2.3254 | 2.4962 2.0556 | 2.3180 | | 2.3930 | Ave | | 2.3179 | | | 0.1000 | 6.3 | 20.0 | | | | |
| Cyclohexane | 3.4808 3.2841 | 3.6123 2.9625 | 3.3140 | | 3.4144 | Ave | | 3.3447 | | | 0.1000 | 6.6 | 20.0 | | | | |
| Carbon tetrachloride | 2.1792 2.1339 | 2.2813 1.9448 | 2.1265 | | 2.1746 | Ave | | 2.1401 | | | 0.1000 | 5.2 | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|--------|---------|------|------|----------|-----------------------|--------|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 1,1-Dichloropropene | 2.3141 2.1256 | 2.2999 1.9443 | 2.1448 | | 2.1730 | Ave | | 2.1670 | | | 6.2 | | 20.0 | | | | |
| Isobutyl alcohol | 0.0762 0.0702 | 0.0712 0.0715 | 0.0682 | | 0.0740 | Ave | | 0.0719 | | | 4.0 | | 20.0 | | | | |
| Benzene | 6.6282 6.1465 | 6.6624 5.6821 | 6.2507 | | 6.2329 | Ave | | 6.2671 | | 0.5000 | 5.7 | | 20.0 | | | | |
| 1,2-Dichloroethane | 2.5068 2.2466 | 2.4540 2.1642 | 2.4769 | | 2.3238 | Ave | | 2.3620 | | 0.1000 | 5.9 | | 20.0 | | | | |
| n-Heptane | 3.1104 3.1741 | 3.5957 3.0304 | 3.2950 | | 3.1938 | Ave | | 3.2332 | | | 6.1 | | 20.0 | | | | |
| Trichloroethene | 1.7014 1.5758 | 1.7044 1.4799 | 1.6208 | | 1.6180 | Ave | | 1.6167 | | 0.2000 | 5.2 | | 20.0 | | | | |
| Methylcyclohexane | 3.0377 2.9386 | 3.1690 2.6855 | 2.8965 | | 2.9946 | Ave | | 2.9536 | | 0.1000 | 5.5 | | 20.0 | | | | |
| 1,2-Dichloropropane | 1.7782 1.7105 | 1.7928 1.6426 | 1.7555 | | 1.7247 | Ave | | 1.7340 | | 0.1000 | 3.1 | | 20.0 | | | | |
| Dibromomethane | 1.0500 1.0151 | 1.0768 0.9628 | 1.0523 | | 1.0227 | Ave | | 1.0299 | | 0.1000 | 3.9 | | 20.0 | | | | |
| 1,4-Dioxane | 0.0020 0.0065 | 0.0057 0.0061 | 0.0063 | | 0.0067 | Lin1 | -0.071 | 0.0063 | | | | | | 0.9980 | | 0.9900 | |
| Bromodichloromethane | 2.3176 2.1897 | 2.2869 2.0920 | 2.2192 | | 2.2134 | Ave | | 2.2198 | | 0.2000 | 3.6 | | 20.0 | | | | |
| 2-Chloroethyl vinyl ether | 1.1855 1.1830 | 1.2264 1.2318 | 1.2676 | | 1.1842 | Ave | | 1.2131 | | | 2.9 | | 20.0 | | | | |
| cis-1,3-Dichloropropene | 2.7669 2.6304 | 2.7131 2.5821 | 2.7230 | 3.9396 | 2.6513 | Ave | | 2.8580 | | 0.2000 | 17.0 | | 20.0 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 1.0205 1.0475 | 1.0932 1.0416 | 1.1016 | | 1.0672 | Ave | | 1.0619 | | 0.1000 | 3.0 | | 20.0 | | | | |
| Toluene | 2.0519 1.9037 | 1.9933 1.8569 | 1.9444 | | 1.9177 | Ave | | 1.9447 | | 0.4000 | 3.6 | | 20.0 | | | | |
| trans-1,3-Dichloropropene | 1.2134 1.1979 | 1.2004 1.2132 | 1.2262 | 1.6737 | 1.1954 | Ave | | 1.2743 | | 0.1000 | 14.0 | | 20.0 | | | | |
| Ethyl methacrylate | 1.0767 1.1315 | 1.1297 1.1645 | 1.1705 | | 1.1213 | Ave | | 1.1324 | | | 3.0 | | 20.0 | | | | |
| 1,1,2-Trichloroethane | 0.6435 0.6053 | 0.6123 0.6050 | 0.6298 | | 0.6059 | Ave | | 0.6170 | | 0.1000 | 2.6 | | 20.0 | | | | |
| Tetrachloroethene | 0.8868 0.8312 | 0.8680 0.8015 | 0.8513 | | 0.8379 | Ave | | 0.8461 | | 0.2000 | 3.5 | | 20.0 | | | | |
| 1,3-Dichloropropane | 1.3402 1.2612 | 1.2829 1.2736 | 1.3210 | | 1.2689 | Ave | | 1.2913 | | | 2.5 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------|------------------|------------------|--------|-------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|--------|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 2-Hexanone | 0.7610 0.6936 | 0.7292 0.7220 | 0.7520 | | 0.7044 | Ave | | 0.7270 | | | 0.1000 | 3.6 | 20.0 | | | | |
| Dibromochloromethane | 0.8315 0.8653 | 0.8311 0.8616 | 0.8484 | | 0.8552 | Ave | | 0.8488 | | | 0.1000 | 1.7 | 20.0 | | | | |
| 1,2-Dibromoethane | 0.7787 0.7746 | 0.7841 0.7737 | 0.7970 | | 0.7754 | Ave | | 0.7806 | | | | 1.1 | 20.0 | | | | |
| Chlorobenzene | 2.2762 2.1594 | 2.2109 2.0951 | 2.2037 | | 2.1659 | Ave | | 2.1852 | | | 0.5000 | 2.8 | 20.0 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.7681 0.7923 | 0.7991 0.7459 | 0.7833 | | 0.7922 | Ave | | 0.7802 | | | | 2.6 | 20.0 | | | | |
| Ethylbenzene | 3.8054 3.6407 | 3.7227 3.5112 | 3.7283 | | 3.6558 | Ave | | 3.6773 | | | 0.1000 | 2.7 | 20.0 | | | | |
| m,p-Xylene | 1.4312 1.4244 | 1.4542 1.3698 | 1.4407 | | 1.4306 | Ave | | 1.4252 | | | 0.1000 | 2.0 | 20.0 | | | | |
| o-Xylene | 1.4474 1.4159 | 1.4335 1.3324 | 1.4366 | | 1.4248 | Ave | | 1.4151 | | | 0.3000 | 3.0 | 20.0 | | | | |
| Styrene | 2.4251 2.4086 | 2.4115 2.3380 | 2.4406 | | 2.4007 | Ave | | 2.4041 | | | 0.3000 | 1.5 | 20.0 | | | | |
| Bromoform | 0.5240 0.5838 | 0.5323 0.5892 | 0.5608 | | 0.5706 | Ave | | 0.5601 | | | 0.1000 | 4.8 | 20.0 | | | | |
| Isopropylbenzene | 4.4115 4.4197 | 4.3560 4.2087 | 4.3422 | | 4.3776 | Ave | | 4.3526 | | | 0.1000 | 1.8 | 20.0 | | | | |
| Bromobenzene | 1.0295 1.0519 | 1.0269 1.0355 | 1.0309 | | 1.0292 | Ave | | 1.0340 | | | | 0.9 | 20.0 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.2515 1.2571 | 1.2365 1.2460 | 1.2487 | | 1.2398 | Ave | | 1.2466 | | | 0.3000 | 0.6 | 20.0 | | | | |
| 1,2,3-Trichloropropane | 0.3928 0.3670 | 0.3512 0.3644 | 0.3700 | | 0.3630 | Ave | | 0.3681 | | | | 3.7 | 20.0 | | | | |
| trans-1,4-Dichloro-2-butene | 0.1719 0.3689 | 0.2425 0.4034 | 0.2939 | | 0.3336 | Lin1 | -0.364 | 0.3855 | | | | | | 0.9930 | | 0.9900 | |
| N-Propylbenzene | 5.2577 5.1046 | 5.0865 4.8475 | 5.0930 | | 5.0505 | Ave | | 5.0733 | | | | 2.6 | 20.0 | | | | |
| 2-Chlorotoluene | 0.9664 0.9861 | 0.9961 0.9360 | 0.9747 | | 0.9867 | Ave | | 0.9743 | | | | 2.2 | 20.0 | | | | |
| 1,3,5-Trimethylbenzene | 3.6159 3.6294 | 3.6121 3.3548 | 3.6035 | | 3.6202 | Ave | | 3.5726 | | | | 3.0 | 20.0 | | | | |
| 4-Chlorotoluene | 1.0667 1.0046 | 1.0165 0.9763 | 1.0066 | | 0.9820 | Ave | | 1.0088 | | | | 3.2 | 20.0 | | | | |
| tert-Butylbenzene | 0.7706 0.7602 | 0.7304 0.7155 | 0.7626 | | 0.7427 | Ave | | 0.7470 | | | | 2.8 | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|--------|---------|------|------|----------|-----------------------|--------|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 3.7341 3.7036 | 3.6948 3.4613 | 3.7475 | | 3.7088 | Ave | | 3.6750 | | | 2.9 | | 20.0 | | | | |
| sec-Butylbenzene | 4.6551 4.6370 | 4.6105 4.2088 | 4.6224 | | 4.6286 | Ave | | 4.5604 | | | 3.8 | | 20.0 | | | | |
| 4-Isopropyltoluene | 3.9109 3.8685 | 3.9134 3.4430 | 3.8953 | | 3.8483 | Ave | | 3.8132 | | | 4.8 | | 20.0 | | | | |
| 1,3-Dichlorobenzene | 2.0411 1.9244 | 1.9705 1.8686 | 1.9775 | | 1.9177 | Ave | | 1.9500 | | 0.6000 | 3.1 | | 20.0 | | | | |
| 1,4-Dichlorobenzene | 2.0464 1.9449 | 1.9594 1.8986 | 1.9735 | | 1.9204 | Ave | | 1.9572 | | 0.5000 | 2.6 | | 20.0 | | | | |
| n-Butylbenzene | 3.6259 3.6288 | 3.6628 3.1675 | 3.6148 | | 3.6026 | Ave | | 3.5504 | | | 5.3 | | 20.0 | | | | |
| 1,2-Dichlorobenzene | 1.9902 1.9050 | 1.9024 1.8120 | 1.9115 | | 1.8968 | Ave | | 1.9030 | | 0.4000 | 3.0 | | 20.0 | | | | |
| 1,2-Dibromo-3-Chloropropane | 0.2428 0.2642 | 0.2492 0.2630 | 0.2555 | | 0.2579 | Ave | | 0.2554 | | 0.0500 | 3.2 | | 20.0 | | | | |
| 1,2,4-Trichlorobenzene | 1.3342 1.4092 | 1.3505 1.2850 | 1.3622 | | 1.3883 | Ave | | 1.3549 | | 0.2000 | 3.2 | | 20.0 | | | | |
| Hexachlorobutadiene | 0.7235 0.7183 | 0.7079 0.5802 | 0.6963 | 1.1017 | 0.7022 | Lin1 | 0.2008 | 0.6361 | | | | | | 0.9900 | | 0.9900 | |
| Naphthalene | 3.3948 3.7696 | 3.5451 3.6454 | 3.6018 | | 3.7252 | Ave | | 3.6137 | | | 3.7 | | 20.0 | | | | |
| 1,2,3-Trichlorobenzene | 1.2070 1.2869 | 1.2548 1.2150 | 1.2434 | | 1.2767 | Ave | | 1.2473 | | | 2.6 | | 20.0 | | | | |
| Dibromofluoromethane (Surr) | 1.4290 1.4847 | 1.5795 1.3768 | 1.4836 | 1.5524 | 1.5235 | Ave | | 1.4899 | | | 4.7 | | 20.0 | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.9555 0.9547 | 1.0193 0.9293 | 0.9787 | 1.0345 | 0.9656 | Ave | | 0.9768 | | | 3.8 | | 20.0 | | | | |
| Toluene-d8 (Surr) | 2.7252 2.7679 | 2.8353 2.7811 | 2.8358 | 2.7916 | 2.7906 | Ave | | 2.7896 | | | 1.4 | | 20.0 | | | | |
| 4-Bromofluorobenzene (Surr) | 0.8051 0.8289 | 0.8394 0.8408 | 0.8498 | 0.8281 | 0.8243 | Ave | | 0.8309 | | | 1.7 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|-------------------|--------------|
| Level 1 | IC 480-177332/5 | D1210.D |
| Level 2 | IC 480-177332/6 | D1211.D |
| Level 3 | IC 480-177332/7 | D1212.D |
| Level 4 | IC 480-177332/4 | D1209.D |
| Level 5 | ICIS 480-177332/8 | D1213.D |
| Level 6 | IC 480-177332/9 | D1214.D |
| Level 7 | IC 480-177332/10 | D1215.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---------------------------------------|--------|------------|------------------|-------------------|--------|-------|--------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 9409 458380 | 46300 907834 | 92410 | | 234194 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Chloromethane | FB | Ave | 16513 640091 | 70115 1229847 | 135651 | | 329272 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Vinyl chloride | FB | Ave | 14018 597066 | 61206 1169031 | 122006 | 6274 | 306848 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Butadiene | FB | Ave | 15345 596433 | 66859 1165407 | 127858 | | 308740 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromomethane | FB | Ave | 7287 314124 | 32892 619547 | 62037 | | 165682 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Chloroethane | FB | Ave | 7380 344695 | 36873 682720 | 70961 | | 176552 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dichlorofluoromethane | FB | Ave | 17493 793861 | 81654 1508593 | 159156 | | 407312 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Trichlorofluoromethane | FB | Ave | 8340 568439 | 47409 1158080 | 96629 | | 274403 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Ethyl ether | FB | Ave | 10112 476321 | 46574 945583 | 97068 | | 235384 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acrolein | FB | Ave | 5302 308680 | 25319 652389 | 55393 | | 149245 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| 1,1-Dichloroethene | FB | Ave | 10588 468095 | 46458 908533 | 93526 | | 232392 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | FB | Ave | 9805 488252 | 50010 981002 | 99530 | | 246523 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acetone | FB | Ave | 20047 547613 | 66887 1325887 | 132249 | | 324637 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Iodomethane | FB | Ave | 17686 799364 | 80122 1530338 | 160199 | | 403262 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Carbon disulfide | FB | Ave | 36219 1646136 | 169102 3138933 | 329484 | | 828882 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|--------------------------|--------|------------|------------------|-------------------|--------|-------|---------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Allyl chloride | FB | Ave | 20600 915210 | 92519 1791502 | 185581 | | 455604 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Methyl acetate | FB | Ave | 45885 2039523 | 208043 4913667 | 446164 | | 1045785 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Methylene Chloride | FB | Ave | 11287 494547 | 51910 1003559 | 104437 | | 260208 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Methyl-2-propanol | FB | Ave | 6236 218032 | 28610 521052 | 58923 | | 134309 | 10.0 500 | 50.0 1000 | 100 | | 250 |
| Methyl tert-butyl ether | FB | Ave | 33223 1618277 | 157704 3107060 | 326454 | | 798456 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,2-Dichloroethene | FB | Ave | 10485 495926 | 50054 957897 | 101557 | | 248657 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acrylonitrile | FB | Ave | 50958 1937802 | 209514 4181132 | 427963 | 22842 | 982756 | 10.0 500 | 50.0 1000 | 100 | 4.00 | 250 |
| Hexane | FB | Ave | 19944 858037 | 89521 1701900 | 173126 | | 422548 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1-Dichloroethane | FB | Ave | 22134 993941 | 101743 1925309 | 203652 | | 498779 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Vinyl acetate | FB | Ave | 53447 2341434 | 230927 5015523 | 503581 | | 1143280 | 2.00 100 | 10.0 200 | 20.0 | | 50.0 |
| 2,2-Dichloropropane | FB | Ave | 11046 478032 | 52067 855391 | 100553 | | 250308 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| cis-1,2-Dichloroethene | FB | Ave | 11374 533524 | 54393 1047331 | 108696 | | 272017 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Butanone (MEK) | FB | Ave | 33148 1328924 | 133850 2904903 | 272631 | | 656505 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Chlorobromomethane | FB | Ave | 5738 267629 | 26717 534258 | 54683 | | 133644 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Tetrahydrofuran | FB | Ave | 9090 333001 | 36520 733659 | 75680 | | 166174 | 2.00 100 | 10.0 200 | 20.0 | | 50.0 |
| Chloroform | FB | Ave | 19631 887590 | 90450 1727462 | 181844 | | 443121 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,1-Trichloroethane | FB | Ave | 15167 725160 | 73487 1389106 | 147730 | | 362792 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Cyclohexane | FB | Ave | 22764 1024130 | 106346 2001980 | 211209 | | 517647 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Carbon tetrachloride | FB | Ave | 14252 665455 | 67160 1314262 | 135529 | | 329687 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1-Dichloropropene | FB | Ave | 15134 662875 | 67707 1313931 | 136694 | | 329444 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Isobutyl alcohol | FB | Ave | 12465 546929 | 52380 1208353 | 108704 | | 280549 | 25.0 1250 | 125 2500 | 250 | | 625 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|-----------------------------|--------|------------|------------------|-------------------|--------|-------|---------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Benzene | FB | Ave | 43348 1916774 | 196139 3839816 | 398373 | | 944941 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dichloroethane | FB | Ave | 16394 700584 | 72246 1462512 | 157860 | | 352305 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| n-Heptane | FB | Ave | 20342 989842 | 105856 2047890 | 209998 | | 484203 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Trichloroethene | FB | Ave | 11127 491395 | 50178 1000093 | 103295 | | 245299 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Methylcyclohexane | FB | Ave | 19866 916377 | 93295 1814791 | 184602 | | 453993 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dichloropropane | FB | Ave | 11629 533403 | 52779 1110031 | 111882 | | 261475 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dibromomethane | FB | Ave | 6867 316540 | 31701 650613 | 67064 | | 155040 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,4-Dioxane | CBZ | Lin1 | 512 77641 | 6674 154903 | 15738 | | 39487 | 20.0 1000 | 100 2000 | 200 | | 500 |
| Bromodichloromethane | FB | Ave | 15157 682850 | 67325 1413737 | 141438 | | 335572 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 7753 368909 | 36105 832430 | 80788 | | 179530 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| cis-1,3-Dichloropropene | FB | Ave | 18095 820283 | 79874 1744911 | 173543 | 9582 | 401946 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| 4-Methyl-2-pentanone (MIBK) | CBZ | Ave | 66268 3142650 | 321478 6658761 | 685812 | | 1568610 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Toluene | CBZ | Ave | 26649 1142285 | 117239 2374063 | 242092 | | 563752 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | 15759 718792 | 70599 1551135 | 152671 | 8411 | 351420 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Ethyl methacrylate | CBZ | Ave | 13983 678964 | 66444 1488862 | 145739 | | 329641 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 8357 363206 | 36014 773547 | 78412 | | 178134 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Tetrachloroethene | CBZ | Ave | 11517 498722 | 51054 1024788 | 105988 | | 246331 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3-Dichloropropane | CBZ | Ave | 17406 756764 | 75455 1628339 | 164468 | | 373028 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Hexanone | CBZ | Ave | 49415 2080827 | 214427 4615423 | 468121 | | 1035406 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Dibromochloromethane | CBZ | Ave | 10583 508847 | 47902 1079568 | 103513 | | 246368 | 0.980 49.0 | 4.90 98.0 | 9.80 | | 24.5 |
| 1,2-Dibromoethane | CBZ | Ave | 10113 464761 | 46118 989173 | 99231 | | 227957 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|-----------------------------|--------|------------|------------------|-------------------|--------|-------|---------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Chlorobenzene | CBZ | Ave | 29562 1295709 | 130036 2678680 | 274374 | | 636707 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 9976 475428 | 47002 953672 | 97528 | | 232895 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Ethylbenzene | CBZ | Ave | 49422 2184549 | 218952 4489153 | 464193 | | 1074726 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| m,p-Xylene | CBZ | Ave | 18587 854697 | 85529 1751372 | 179380 | | 420560 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| o-Xylene | CBZ | Ave | 18798 849618 | 84312 1703457 | 178863 | | 418865 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Styrene | CBZ | Ave | 31495 1445235 | 141835 2989169 | 303872 | | 705745 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromoform | CBZ | Ave | 6805 350309 | 31307 753327 | 69826 | | 167744 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Isopropylbenzene | DCB | Ave | 50013 2251373 | 225174 4476317 | 475767 | | 1117068 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromobenzene | DCB | Ave | 11671 535837 | 53085 1101326 | 112950 | | 262636 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 14188 640375 | 63921 1325230 | 136822 | | 316361 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 4453 186945 | 18154 387611 | 40543 | | 92625 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,4-Dichloro-2-butene | DCB | Lin1 | 1949 187908 | 12534 429004 | 32204 | | 85137 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| N-Propylbenzene | DCB | Ave | 59606 2600245 | 262938 5155710 | 558025 | | 1288764 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Chlorotoluene | DCB | Ave | 10956 502319 | 51490 995563 | 106794 | | 251781 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 40993 1848759 | 186723 3568145 | 394823 | | 923803 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 4-Chlorotoluene | DCB | Ave | 12093 511750 | 52546 1038402 | 110289 | | 250579 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| tert-Butylbenzene | DCB | Ave | 8736 387252 | 37756 761043 | 83556 | | 189523 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 42333 1886589 | 190998 3681390 | 410607 | | 946399 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| sec-Butylbenzene | DCB | Ave | 52775 2362030 | 238329 4476378 | 506463 | | 1181127 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 4-Isopropyltoluene | DCB | Ave | 44338 1970573 | 202298 3661930 | 426799 | | 982005 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 23140 980271 | 101861 1987372 | 216674 | | 489358 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1 Analy Batch No.: 177332

SDG No.: _____

Instrument ID: HP5975D GC Column: RTX-CLPII ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 04/22/2014 05:18 Calibration End Date: 04/22/2014 07:25 Calibration ID: 18122

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|------------------------------|--------|------------|------------------|-------------------|--------|--------|--------|----------------------|--------------|-------|-------|-------|
| | | | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 |
| | | | LVL 6 | LVL 7 | | | | LVL 6 | LVL 7 | | | |
| 1,4-Dichlorobenzene | DCB | Ave | 23200 990691 | 101286 2019278 | 216233 | | 490053 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| n-Butylbenzene | DCB | Ave | 41106 1848468 | 189344 3368934 | 396065 | | 919298 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 22563 970401 | 98342 1927221 | 209441 | | 484021 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 2753 134559 | 12881 279774 | 27990 | | 65808 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 15126 717822 | 69811 1366703 | 149253 | | 354271 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Hexachlorobutadiene | DCB | Lin1 | 8202 365870 | 36594 617140 | 76287 | 4895 | 179176 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Naphthalene | DCB | Ave | 38487 1920172 | 183259 3877235 | 394643 | | 950593 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 13684 655517 | 64866 1292237 | 136232 | | 325788 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 233644 231497 | 232502 232610 | 236389 | 235988 | 230968 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 156226 148858 | 150037 156999 | 155938 | 157263 | 146396 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 884815 830424 | 833797 888917 | 882694 | 876796 | 820354 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 261418 248686 | 246845 268753 | 264503 | 260093 | 242328 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |

Curve Type Legend:

| |
|---------------------------|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1209.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 22-Apr-2014 05:18:30 ALS Bottle#: 2 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0031313-004
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1209.D
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:34 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:34

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 98 | 152014 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.153 | 7.154 | -0.001 | 86 | 314088 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.055 | 9.056 | -0.001 | 95 | 277702 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 80 | 235988 | 25.0 | 26.0 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 157263 | 25.0 | 26.5 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.013 | 6.014 | -0.001 | 93 | 876796 | 25.0 | 25.0 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.104 | 8.105 | -0.001 | 89 | 260093 | 25.0 | 24.9 | |
| 10 Dichlorodifluoromethane | 85 | | 1.325 | | | | | | |
| 12 Chloromethane | 50 | | 1.435 | | | | | | |
| 13 Vinyl chloride | 62 | 1.539 | 1.539 | 0.000 | 21 | 6274 | 0.4000 | 0.5021 | |
| 144 Butadiene | 54 | | 1.551 | | | | | | |
| 14 Bromomethane | 94 | | 1.801 | | | | | | |
| 15 Chloroethane | 64 | | 1.899 | | | | | | |
| 16 Dichlorofluoromethane | 67 | | 2.081 | | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.112 | | | | | | |
| 18 Ethyl ether | 59 | | 2.307 | | | | | | |
| 20 Acrolein | 56 | | 2.453 | | | | | | |
| 22 1,1-Dichloroethene | 96 | | 2.496 | | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | | 2.545 | | | | | | |
| 23 Acetone | 43 | | 2.593 | | | | | | |
| 25 Iodomethane | 142 | | 2.630 | | | | | | |
| 26 Carbon disulfide | 76 | | 2.673 | | | | | | |
| 28 3-Chloro-1-propene | 41 | | 2.819 | | | | | | |
| 27 Methyl acetate | 43 | | 2.862 | | | | | | |
| 30 Methylene Chloride | 84 | | 2.941 | | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.087 | | | | | | |
| 32 Methyl tert-butyl ether | 73 | | 3.142 | | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.148 | | | | | | |
| 33 Acrylonitrile | 53 | 3.178 | 3.173 | 0.005 | 98 | 22842 | 4.00 | 5.27 | |
| 35 Hexane | 57 | | 3.331 | | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | | 3.502 | | | | | | |
| 37 Vinyl acetate | 43 | | 3.545 | | | | | | |
| 44 2,2-Dichloropropane | 77 | | 3.941 | | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 3.965 | | | | | | |
| 43 2-Butanone (MEK) | 43 | | 3.990 | | | | | | |
| 48 Chlorobromomethane | 128 | | 4.154 | | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.191 | | | | | | |
| 50 Chloroform | 83 | | 4.221 | | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 4.325 | | | | | | |
| 52 Cyclohexane | 56 | | 4.343 | | | | | | M |
| 55 Carbon tetrachloride | 117 | | 4.441 | | | | | | |
| 54 1,1-Dichloropropene | 75 | | 4.447 | | | | | | |
| 53 Isobutyl alcohol | 43 | | 4.605 | | | | | | |
| 57 Benzene | 78 | | 4.611 | | | | | | |
| 58 1,2-Dichloroethane | 62 | | 4.654 | | | | | | |
| 59 n-Heptane | 43 | | 4.770 | | | | | | |
| 62 Trichloroethene | 95 | | 5.099 | | | | | | |
| 64 Methylcyclohexane | 83 | | 5.209 | | | | | | |
| 65 1,2-Dichloropropane | 63 | | 5.282 | | | | | | |
| 67 Dibromomethane | 93 | | 5.386 | | | | | | |
| 66 1,4-Dioxane | 88 | | 5.404 | | | | | | |
| 68 Dichlorobromomethane | 83 | | 5.508 | | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 5.721 | | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | 5.837 | 5.831 | 0.006 | 53 | 9582 | 0.4000 | 0.5514 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 5.940 | | | | | | |
| 74 Toluene | 92 | | 6.068 | | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | 6.269 | 6.264 | 0.005 | 65 | 8411 | 0.4000 | 0.5254 | |
| 75 Ethyl methacrylate | 69 | | 6.306 | | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 6.416 | | | | | | |
| 81 Tetrachloroethene | 166 | | 6.489 | | | | | | |
| 82 1,3-Dichloropropane | 76 | | 6.538 | | | | | | |
| 80 2-Hexanone | 43 | | 6.587 | | | | | | |
| 83 Chlorodibromomethane | 129 | | 6.721 | | | | | | |
| 84 Ethylene Dibromide | 107 | | 6.812 | | | | | | |
| 87 Chlorobenzene | 112 | | 7.178 | | | | | | |
| 88 Ethylbenzene | 91 | | 7.245 | | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 7.245 | | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 7.336 | | | | | | |
| 91 o-Xylene | 106 | | 7.660 | | | | | | |
| 92 Styrene | 104 | | 7.678 | | | | | | |
| 95 Bromoform | 173 | | 7.867 | | | | | | |
| 94 Isopropylbenzene | 105 | | 7.952 | | | | | | |
| 101 Bromobenzene | 156 | | 8.227 | | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 8.245 | | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 8.275 | | | | | | |
| 98 trans-1,4-Dichloro-2-buten | 53 | | 8.281 | | | | | | |
| 99 N-Propylbenzene | 91 | | 8.288 | | | | | | |
| 103 2-Chlorotoluene | 126 | | 8.373 | | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 8.428 | | | | | | |
| 105 4-Chlorotoluene | 126 | | 8.464 | | | | | | |
| 106 tert-Butylbenzene | 134 | | 8.696 | | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.745 | | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | DI RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|--------------|------------------|-----------------|----|----------|-----------------|-------------------|-------|
| 109 sec-Butylbenzene | 105 | | 8.879 | | | | | | |
| 110 4-Isopropyltoluene | 119 | | 8.995 | | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 9.001 | | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 9.074 | | | | | | |
| 115 n-Butylbenzene | 91 | | 9.336 | | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 9.391 | | | | | | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 10.055 | | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.732 | | | | | | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 43 | 4895 | 0.4000 | 0.3770 | |
| 121 Naphthalene | 128 | | 10.939 | | | | | | |
| 122 1,2,3-Trichlorobenzene | 180 | | 11.141 | | | | | | |
| S 125 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 1.08 | |
| S 123 Total BTEX | 1 | | 30.000 | | | | | | |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1209.D

Injection Date: 22-Apr-2014 05:18:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC 0.4

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

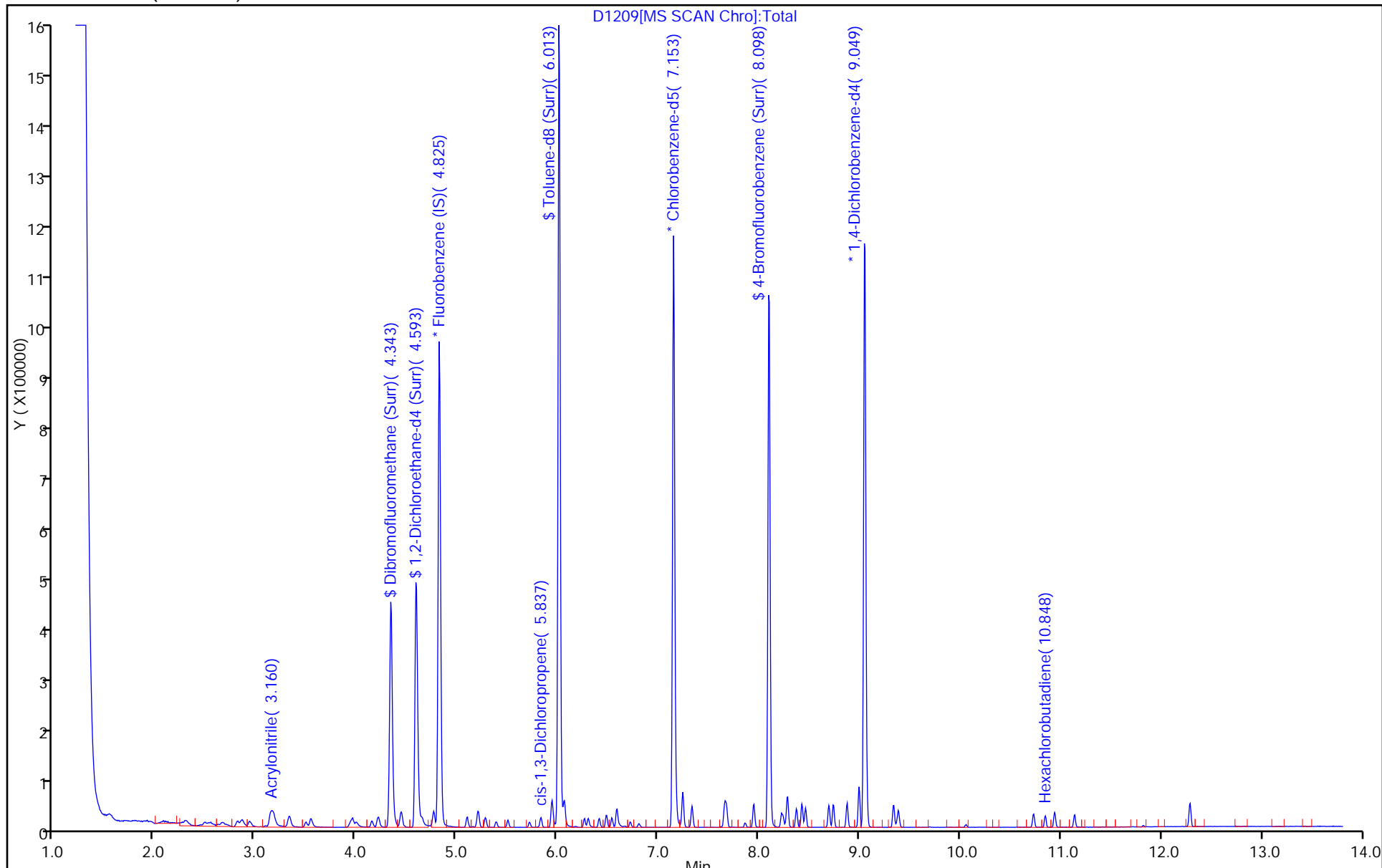
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 22-Apr-2014 05:39:30 ALS Bottle#: 3 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0031313-005
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:38 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:38

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 98 | 163498 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.153 | 7.154 | -0.001 | 87 | 324684 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 95 | 283423 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 80 | 233644 | 25.0 | 24.0 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 156226 | 25.0 | 24.5 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.020 | 6.014 | 0.006 | 93 | 884815 | 25.0 | 24.4 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 89 | 261418 | 25.0 | 24.2 | |
| 10 Dichlorodifluoromethane | 85 | 1.325 | 1.325 | 0.000 | 27 | 9409 | 1.00 | 0.9788 | |
| 12 Chloromethane | 50 | 1.435 | 1.435 | 0.000 | 77 | 16513 | 1.00 | 1.16 | |
| 13 Vinyl chloride | 62 | 1.527 | 1.539 | -0.012 | 43 | 14018 | 1.00 | 1.04 | |
| 144 Butadiene | 54 | 1.563 | 1.551 | 0.012 | 96 | 15345 | 1.00 | 1.14 | |
| 14 Bromomethane | 94 | 1.813 | 1.801 | 0.012 | 70 | 7287 | 1.00 | 1.07 | M |
| 15 Chloroethane | 64 | 1.917 | 1.899 | 0.019 | 51 | 7380 | 1.00 | 1.00 | |
| 16 Dichlorofluoromethane | 67 | 2.081 | 2.081 | 0.000 | 49 | 17493 | 1.00 | 1.04 | |
| 17 Trichlorofluoromethane | 101 | 2.045 | 2.112 | -0.067 | 38 | 8340 | 1.00 | 0.7849 | |
| 18 Ethyl ether | 59 | 2.313 | 2.307 | 0.006 | 84 | 10112 | 1.00 | 1.02 | |
| 20 Acrolein | 56 | 2.459 | 2.453 | 0.006 | 46 | 5302 | 5.00 | 4.44 | |
| 22 1,1-Dichloroethene | 96 | 2.496 | 2.496 | 0.000 | 61 | 10588 | 1.00 | 1.07 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.551 | 2.545 | 0.006 | 43 | 9805 | 1.00 | 0.9567 | |
| 23 Acetone | 43 | 2.600 | 2.593 | 0.007 | 73 | 20047 | 5.00 | 6.93 | M |
| 25 Iodomethane | 142 | 2.630 | 2.630 | 0.000 | 75 | 17686 | 1.00 | 1.05 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 94 | 36219 | 1.00 | 1.04 | |
| 28 3-Chloro-1-propene | 41 | 2.825 | 2.819 | 0.006 | 66 | 20600 | 1.00 | 1.06 | |
| 27 Methyl acetate | 43 | 2.868 | 2.862 | 0.006 | 94 | 45885 | 5.00 | 5.04 | M |
| 30 Methylene Chloride | 84 | 2.941 | 2.941 | 0.000 | 78 | 11287 | 1.00 | 1.04 | |
| 31 2-Methyl-2-propanol | 59 | 3.099 | 3.087 | 0.012 | 50 | 6236 | 10.0 | 11.0 | M |
| 32 Methyl tert-butyl ether | 73 | 3.148 | 3.142 | 0.006 | 87 | 33223 | 1.00 | 1.00 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.154 | 3.148 | 0.006 | 58 | 10485 | 1.00 | 1.01 | |
| 33 Acrylonitrile | 53 | 3.179 | 3.173 | 0.006 | 98 | 50958 | 10.0 | 10.9 | M |
| 35 Hexane | 57 | 3.337 | 3.331 | 0.006 | 90 | 19944 | 1.00 | 1.09 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 59 | 22134 | 1.00 | 1.05 | |
| 37 Vinyl acetate | 43 | 3.551 | 3.545 | 0.006 | 95 | 53447 | 2.00 | 2.11 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 68 | 11046 | 1.00 | 1.07 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 60 | 11374 | 1.00 | 1.01 | |
| 43 2-Butanone (MEK) | 43 | 4.002 | 3.990 | 0.012 | 95 | 33148 | 5.00 | 5.68 | M |
| 48 Chlorobromomethane | 128 | 4.154 | 4.154 | 0.000 | 82 | 5738 | 1.00 | 1.02 | |
| 49 Tetrahydrofuran | 42 | 4.209 | 4.191 | 0.018 | 67 | 9090 | 2.00 | 2.36 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 72 | 19631 | 1.00 | 1.04 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 71 | 15167 | 1.00 | 1.00 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 34 | 22764 | 1.00 | 1.04 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 67 | 14252 | 1.00 | 1.02 | |
| 54 1,1-Dichloropropene | 75 | 4.447 | 4.447 | 0.000 | 80 | 15134 | 1.00 | 1.07 | |
| 53 Isobutyl alcohol | 43 | 4.611 | 4.605 | 0.006 | 28 | 12465 | 25.0 | 26.5 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 60 | 43348 | 1.00 | 1.06 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 71 | 16394 | 1.00 | 1.06 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 90 | 20342 | 1.00 | 0.9620 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 73 | 11127 | 1.00 | 1.05 | |
| 64 Methylcyclohexane | 83 | 5.209 | 5.209 | 0.000 | 84 | 19866 | 1.00 | 1.03 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 76 | 11629 | 1.00 | 1.03 | |
| 67 Dibromomethane | 93 | 5.392 | 5.386 | 0.006 | 81 | 6867 | 1.00 | 1.02 | |
| 66 1,4-Dioxane | 88 | 5.416 | 5.404 | 0.012 | 0 | 512 | 20.0 | 17.4 | M |
| 68 Dichlorobromomethane | 83 | 5.507 | 5.508 | -0.001 | 73 | 15157 | 1.00 | 1.04 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 70 | 7753 | 1.00 | 0.9773 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.837 | 5.831 | 0.006 | 64 | 18095 | 1.00 | 0.9681 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.946 | 5.940 | 0.006 | 95 | 66268 | 5.00 | 4.80 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 95 | 26649 | 1.00 | 1.06 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.270 | 6.264 | 0.006 | 72 | 15759 | 1.00 | 0.9522 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 74 | 13983 | 1.00 | 0.9508 | |
| 79 1,1,2-Trichloroethane | 83 | 6.416 | 6.416 | 0.000 | 74 | 8357 | 1.00 | 1.04 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 85 | 11517 | 1.00 | 1.05 | |
| 82 1,3-Dichloropropane | 76 | 6.538 | 6.538 | 0.000 | 77 | 17406 | 1.00 | 1.04 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 93 | 49415 | 5.00 | 5.23 | |
| 83 Chlorodibromomethane | 129 | 6.721 | 6.721 | 0.000 | 57 | 10583 | 0.9800 | 0.9600 | |
| 84 Ethylene Dibromide | 107 | 6.812 | 6.812 | 0.000 | 70 | 10113 | 1.00 | 1.00 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 88 | 29562 | 1.00 | 1.04 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 22 | 9976 | 1.00 | 0.9846 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 97 | 49422 | 1.00 | 1.03 | |
| 90 m-Xylene & p-Xylene | 106 | 7.336 | 7.336 | 0.000 | 0 | 18587 | 1.00 | 1.00 | |
| 91 o-Xylene | 106 | 7.659 | 7.660 | -0.001 | 91 | 18798 | 1.00 | 1.02 | |
| 92 Styrene | 104 | 7.678 | 7.678 | 0.000 | 87 | 31495 | 1.00 | 1.01 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 78 | 6805 | 1.00 | 0.9355 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 90 | 50013 | 1.00 | 1.01 | |
| 101 Bromobenzene | 156 | 8.226 | 8.227 | -0.001 | 91 | 11671 | 1.00 | 1.00 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 60 | 14188 | 1.00 | 1.00 | |
| 100 1,2,3-Trichloropropane | 110 | 8.275 | 8.275 | 0.000 | 62 | 4453 | 1.00 | 1.07 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.287 | 8.281 | 0.006 | 44 | 1949 | 1.00 | 1.39 | |
| 99 N-Propylbenzene | 91 | 8.287 | 8.288 | -0.001 | 96 | 59606 | 1.00 | 1.04 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 90 | 10956 | 1.00 | 0.99 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.428 | 8.428 | 0.000 | 77 | 40993 | 1.00 | 1.01 | |
| 105 4-Chlorotoluene | 126 | 8.464 | 8.464 | 0.000 | 88 | 12093 | 1.00 | 1.06 | |
| 106 tert-Butylbenzene | 134 | 8.696 | 8.696 | 0.000 | 81 | 8736 | 1.00 | 1.03 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.739 | 8.745 | -0.006 | 89 | 42333 | 1.00 | 1.02 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 81 | 52775 | 1.00 | 1.02 | |
| 110 4-Isopropyltoluene | 119 | 8.995 | 8.995 | 0.000 | 93 | 44338 | 1.00 | 1.03 | |
| 111 1,3-Dichlorobenzene | 146 | 8.995 | 9.001 | -0.006 | 63 | 23140 | 1.00 | 1.05 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 77 | 23200 | 1.00 | 1.05 | |
| 115 n-Butylbenzene | 91 | 9.342 | 9.336 | 0.006 | 91 | 41106 | 1.00 | 1.02 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 86 | 22563 | 1.00 | 1.05 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.055 | 10.055 | 0.000 | 12 | 2753 | 1.00 | 0.9507 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 73 | 15126 | 1.00 | 0.9847 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 69 | 8202 | 1.00 | 0.8216 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 84 | 38487 | 1.00 | 0.9394 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.141 | 11.141 | 0.000 | 67 | 13684 | 1.00 | 0.9677 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 5.17 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 2.03 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 2.02 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 1.92 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1210.D

Injection Date: 22-Apr-2014 05:39:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

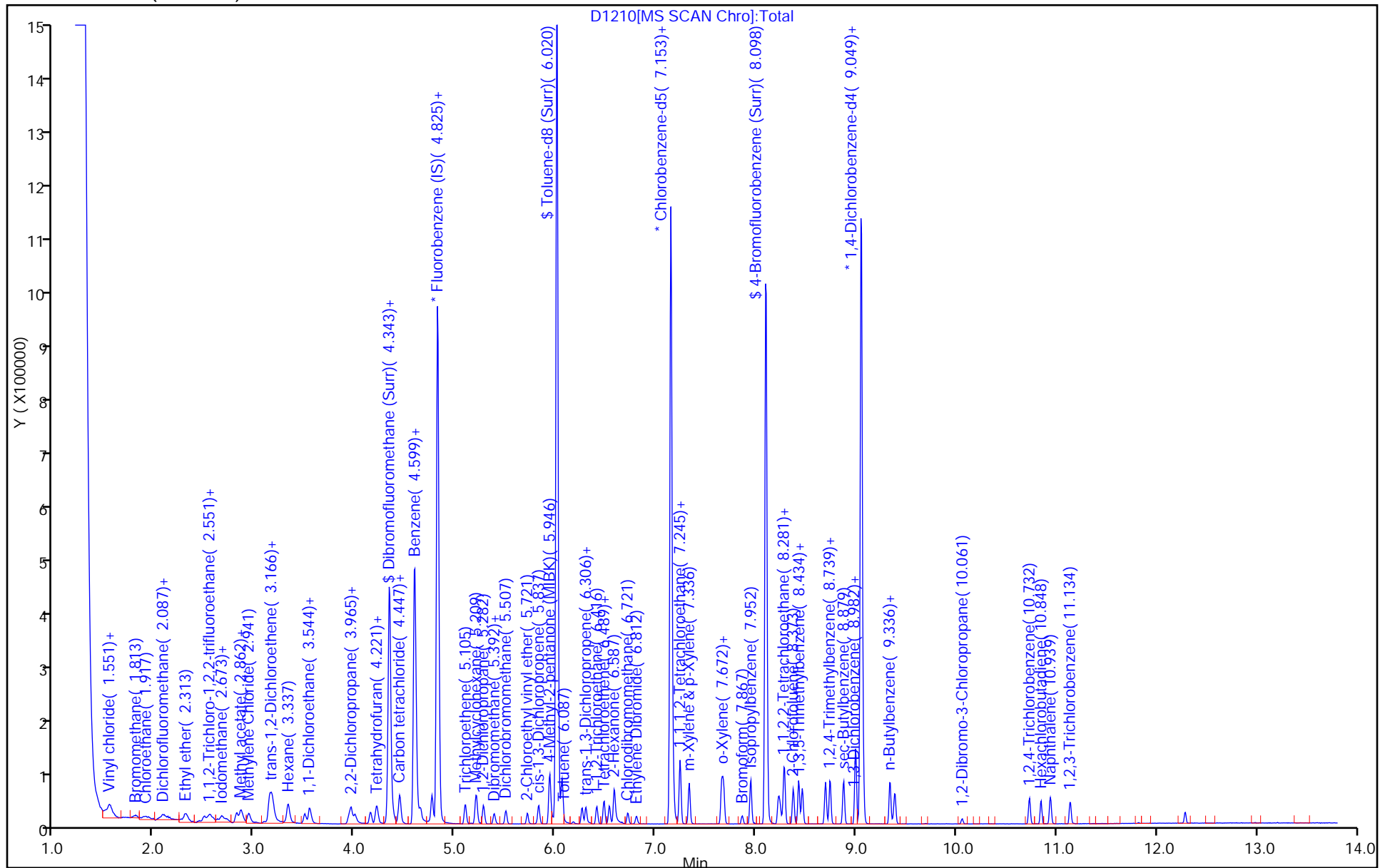
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



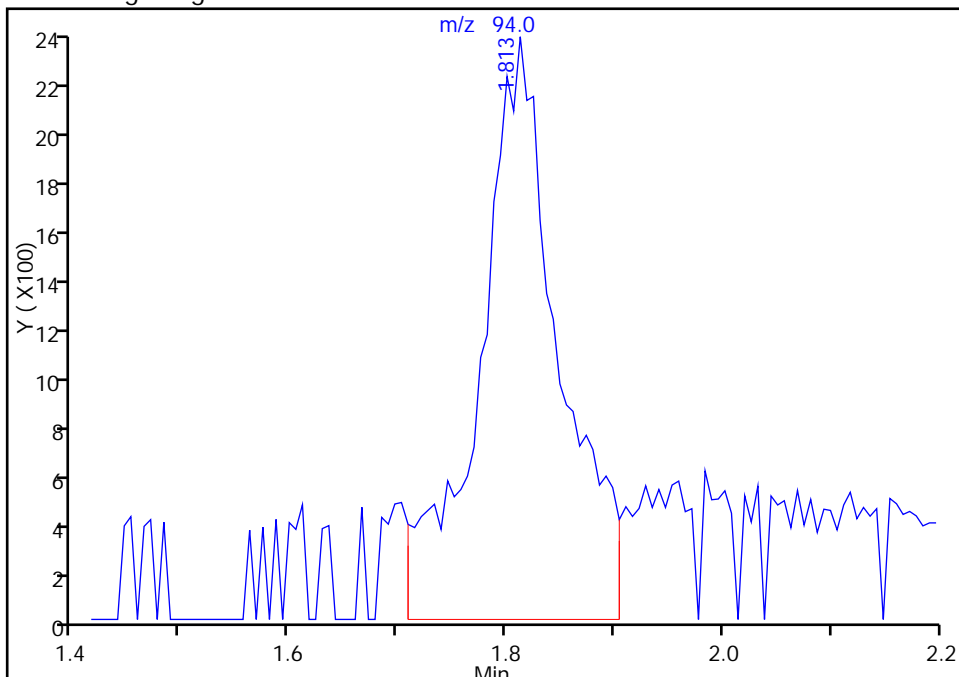
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

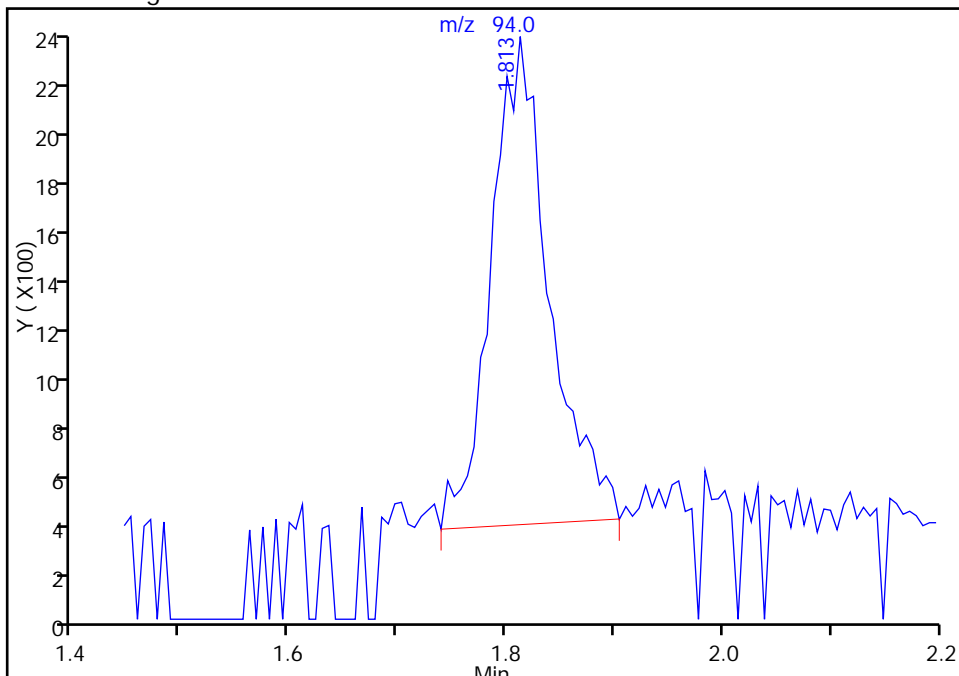
RT: 1.81
Response: 11960
Amount: 0.911441

Processing Integration Results



RT: 1.81
Response: 7287
Amount: 1.074507

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:36:52
Audit Action: Manually Integrated
Audit Reason: Baseline

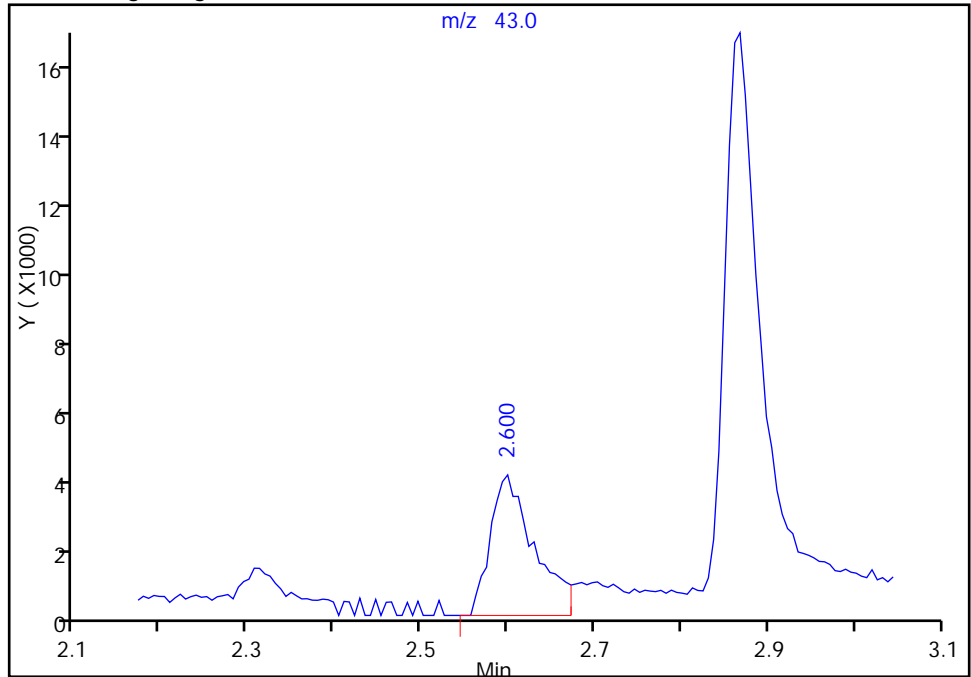
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

23 Acetone, CAS: 67-64-1

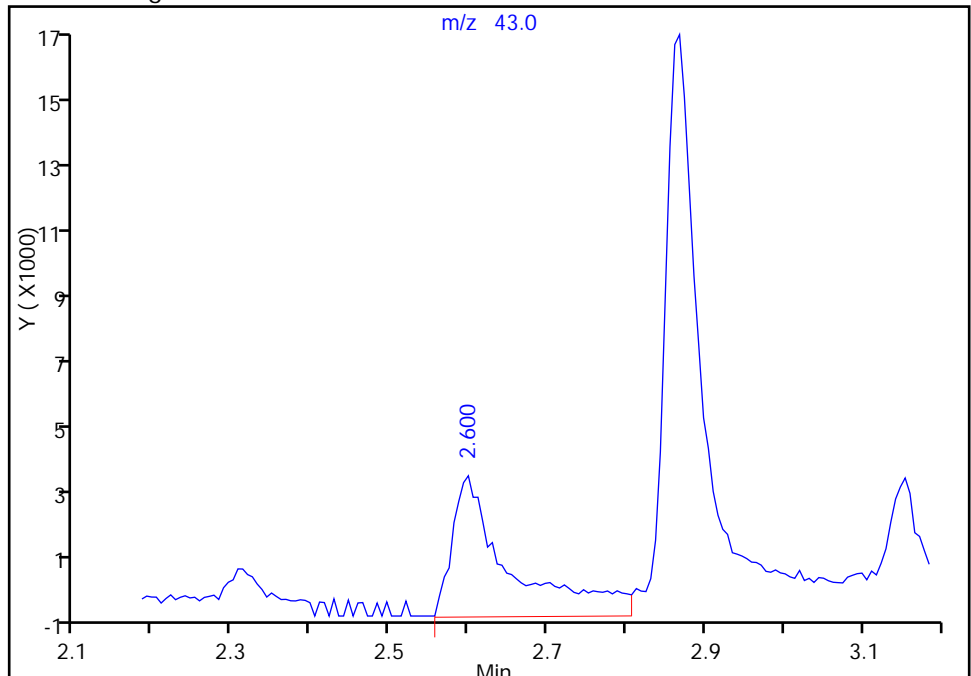
RT: 2.60
Response: 13829
Amount: 5.148661

Processing Integration Results



RT: 2.60
Response: 20047
Amount: 6.928988

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:38:00
Audit Action: Manually Integrated
Audit Reason: Peak Tail

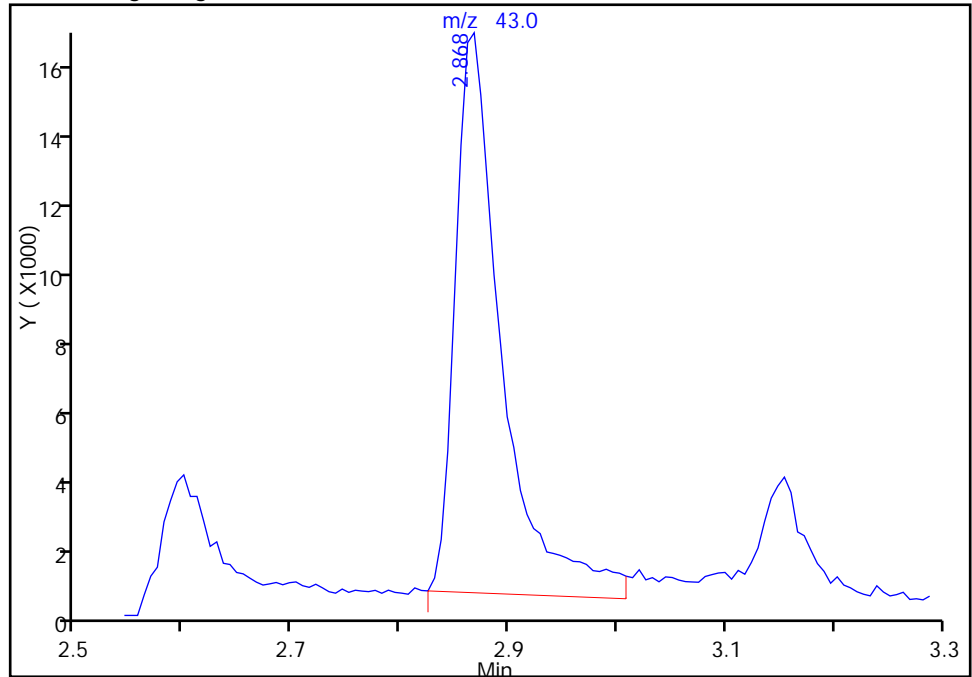
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

27 Methyl acetate, CAS: 79-20-9

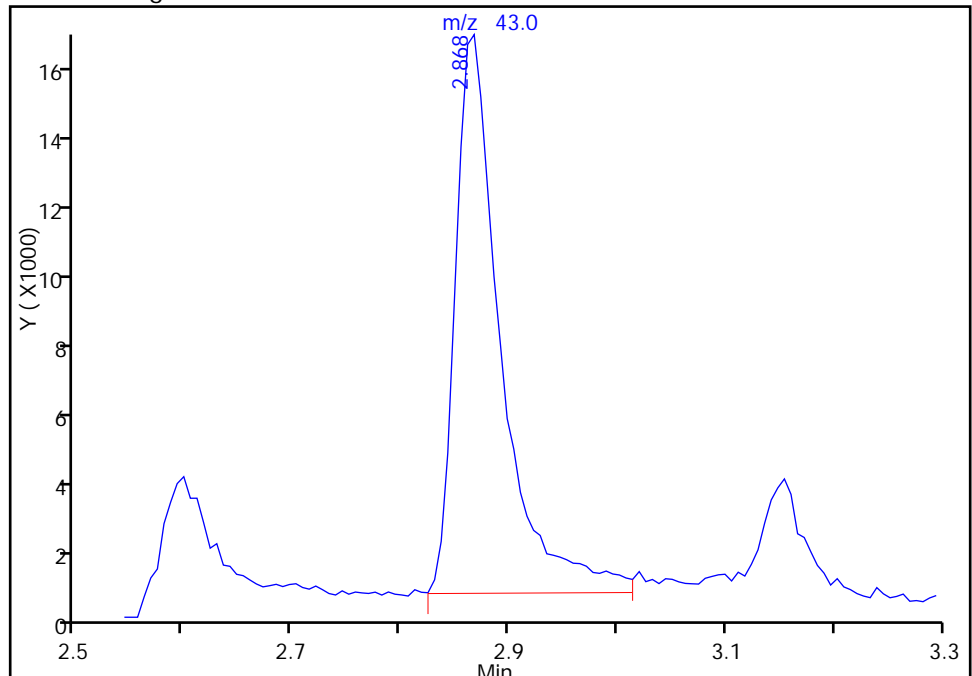
RT: 2.87
Response: 46891
Amount: 5.127925

Processing Integration Results



RT: 2.87
Response: 45885
Amount: 5.036380

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:34:59
Audit Action: Manually Integrated
Audit Reason: Baseline

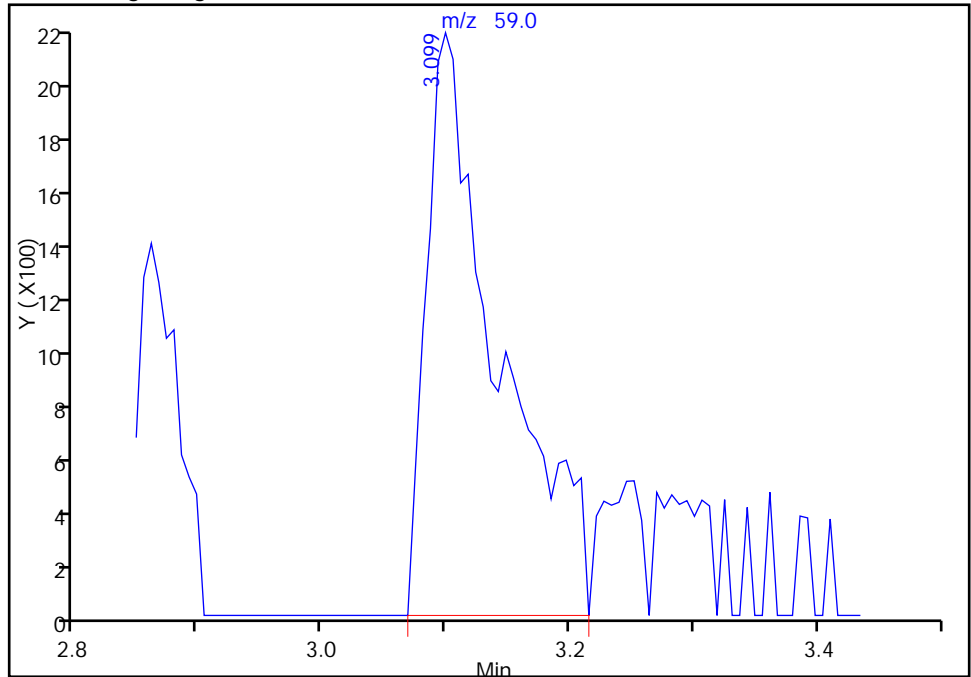
TestAmerica Buffalo

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Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
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Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

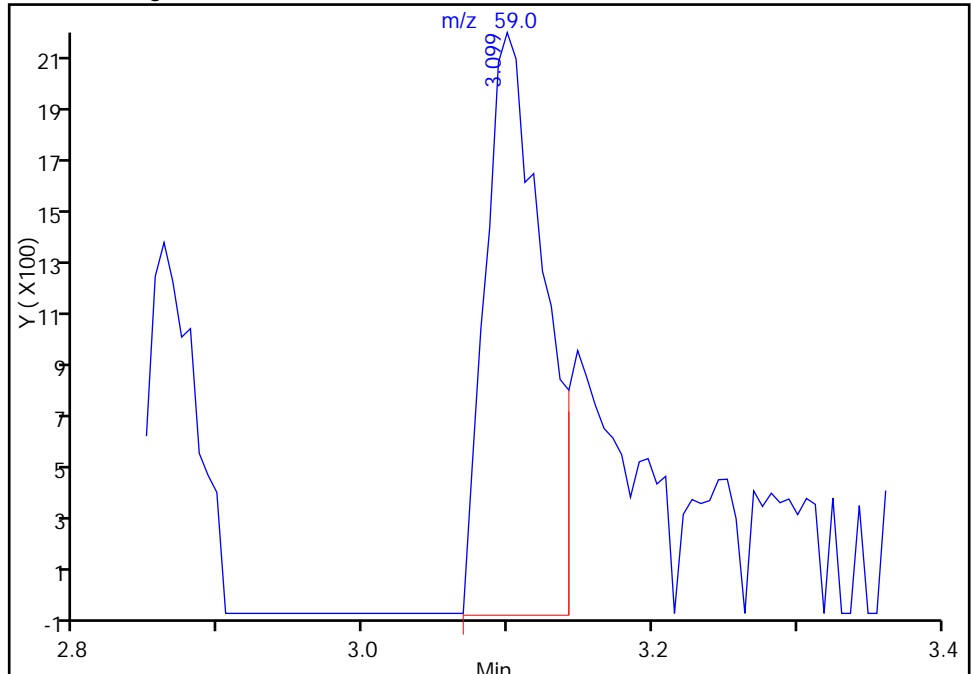
RT: 3.10
Response: 8856
Amount: 11.346050

Processing Integration Results



RT: 3.10
Response: 6236
Amount: 10.989588

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:49:49
Audit Action: Manually Integrated
Audit Reason: Coelution

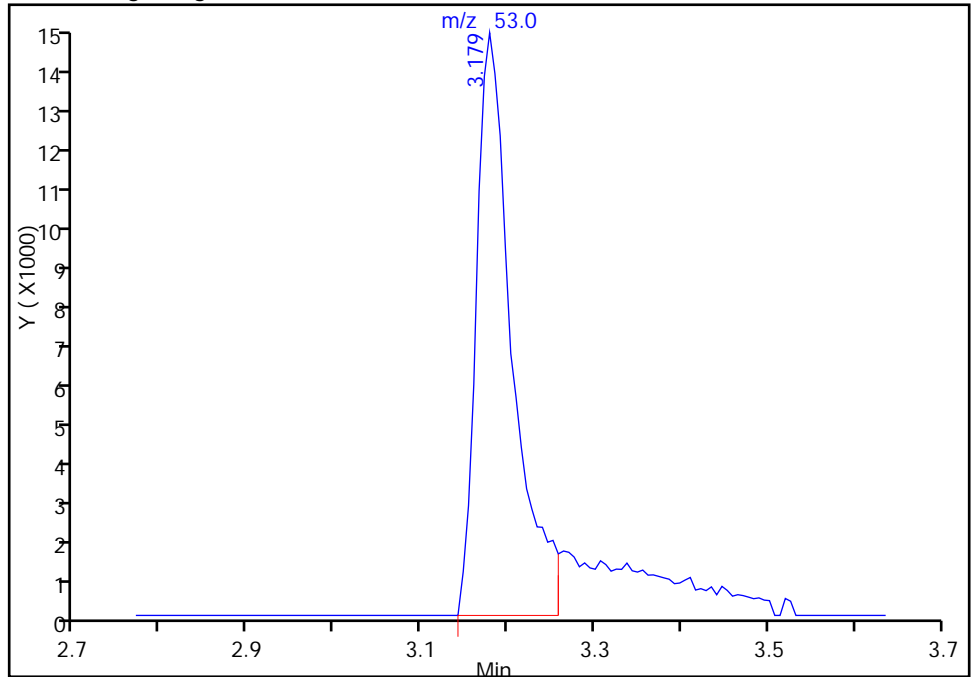
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

33 Acrylonitrile, CAS: 107-13-1

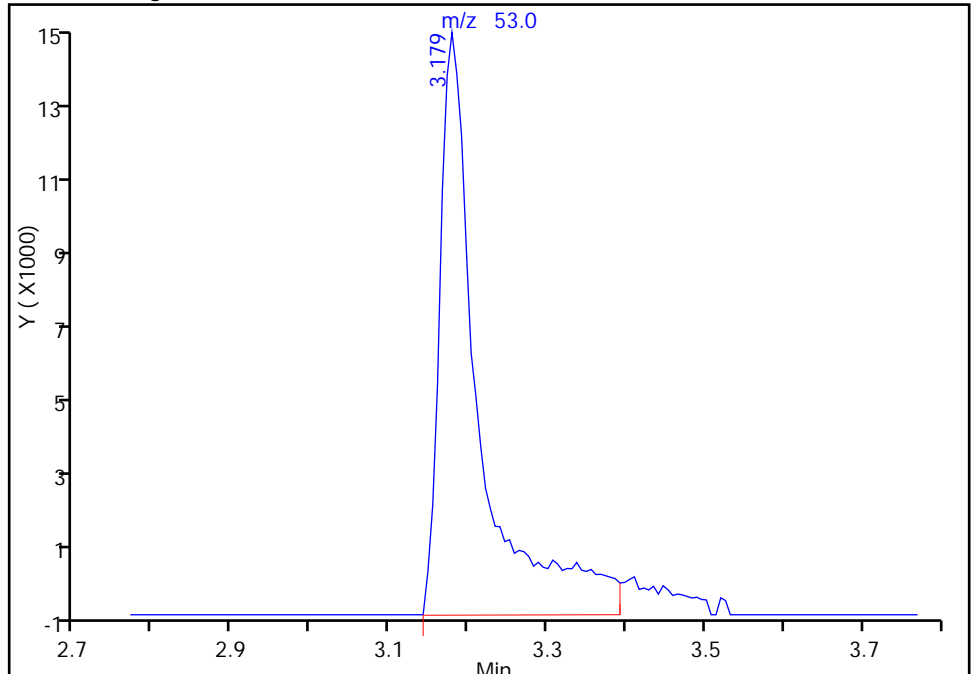
RT: 3.18
Response: 41514
Amount: 8.207523

Processing Integration Results



RT: 3.18
Response: 50958
Amount: 10.930799

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:34:59
Audit Action: Manually Integrated
Audit Reason: Peak Tail

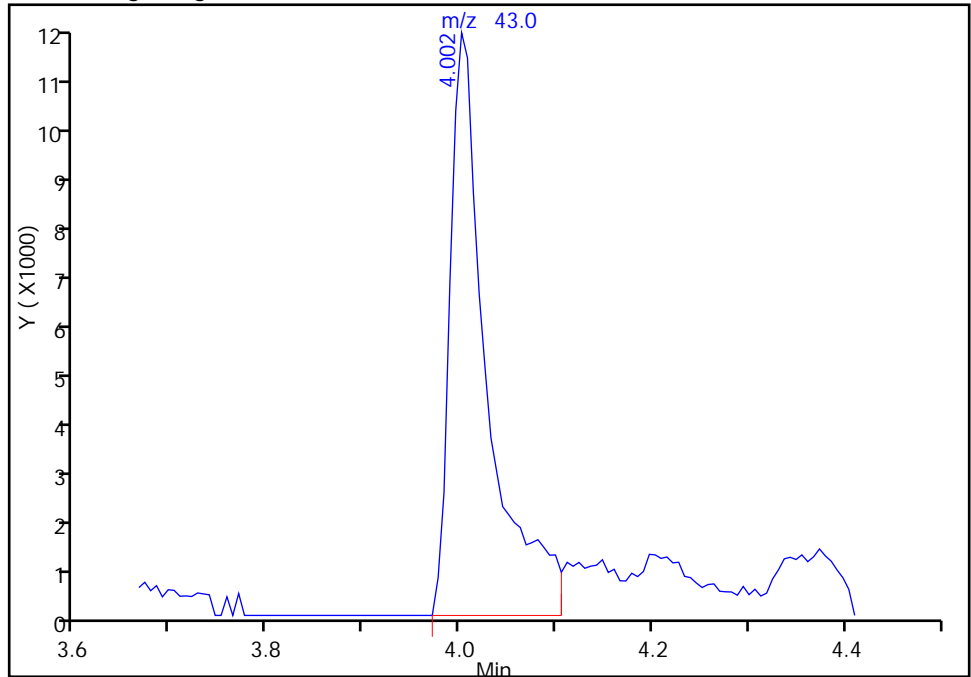
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

43 2-Butanone (MEK), CAS: 78-93-3

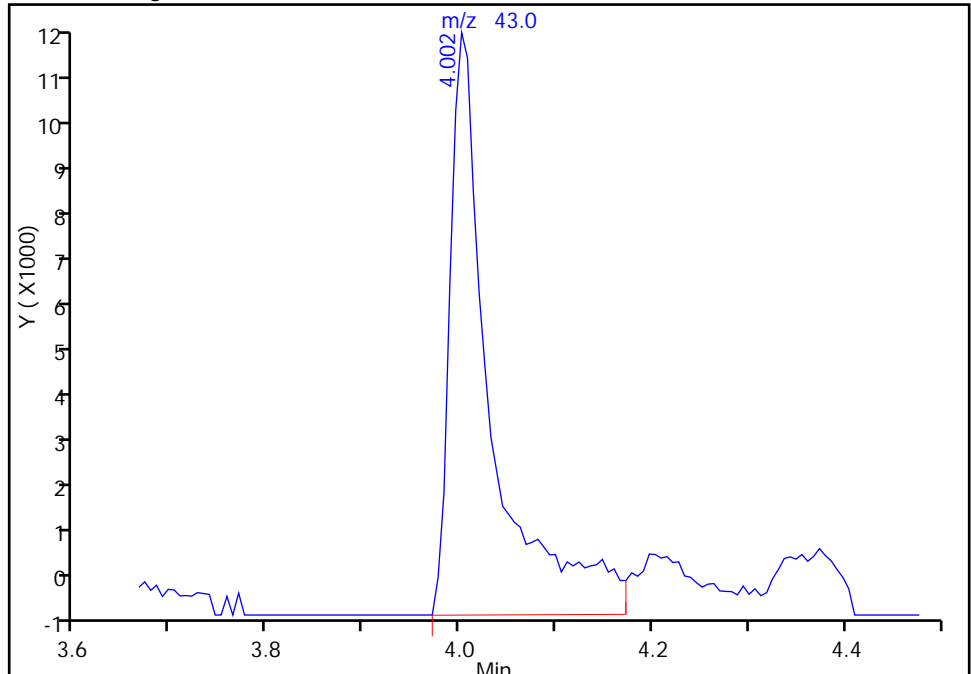
RT: 4.00
Response: 29641
Amount: 5.180377

Processing Integration Results



RT: 4.00
Response: 33148
Amount: 5.677306

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:42:09
Audit Action: Manually Integrated
Audit Reason: Peak Tail

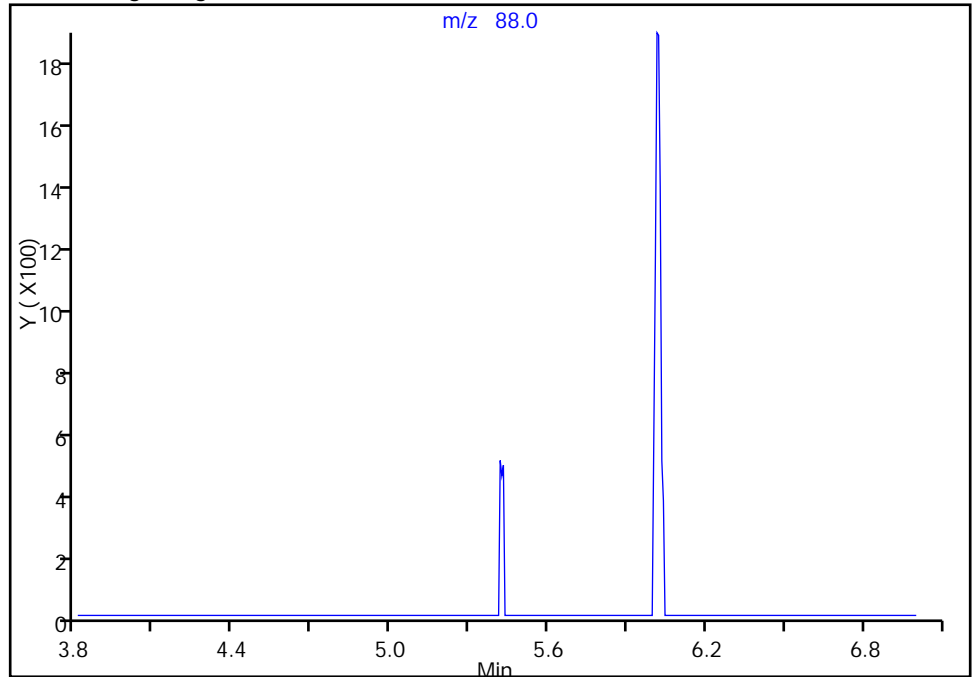
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1210.D
Injection Date: 22-Apr-2014 05:39:30 Instrument ID: HP5975D
Lims ID: IC
Client ID:
Operator ID: CDC ALS Bottle#: 3 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

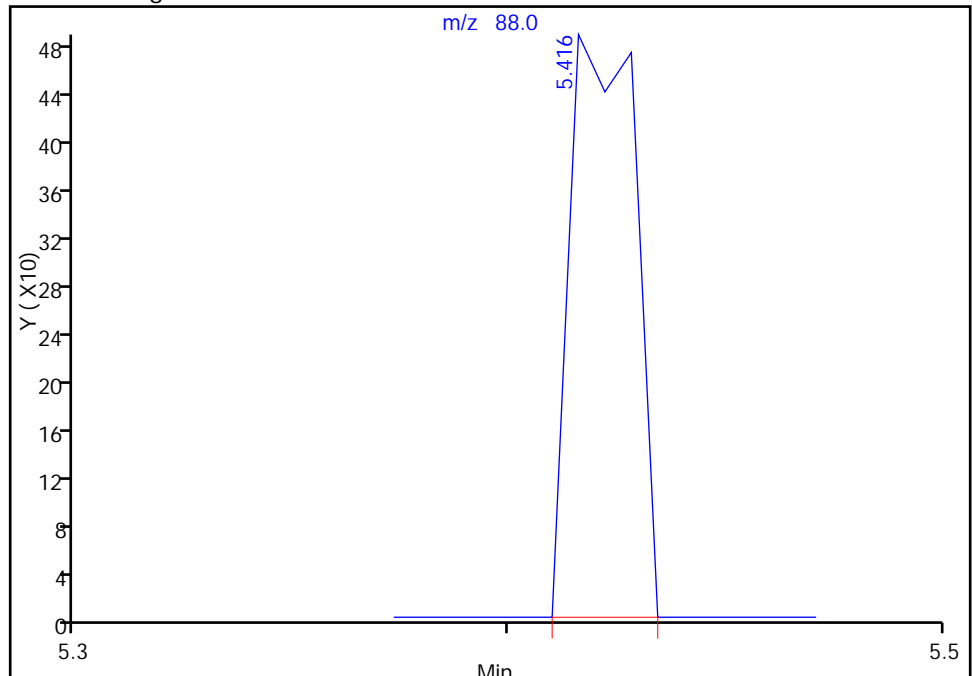
Not Detected
Expected RT: 5.40

Processing Integration Results



RT: 5.42
Response: 512
Amount: 17.405647

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 11:28:21
Audit Action: Manually Integrated
Audit Reason: Missed Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1211.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 22-Apr-2014 06:01:30 ALS Bottle#: 4 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0031313-006
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:43 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:43

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 98 | 147198 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.154 | 7.154 | 0.000 | 87 | 294076 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 95 | 258466 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 83 | 232502 | 25.0 | 26.5 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 150037 | 25.0 | 26.1 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.020 | 6.014 | 0.006 | 93 | 833797 | 25.0 | 25.4 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 89 | 246845 | 25.0 | 25.3 | |
| 10 Dichlorodifluoromethane | 85 | 1.332 | 1.325 | 0.007 | 73 | 46300 | 5.00 | 5.35 | |
| 12 Chloromethane | 50 | 1.429 | 1.435 | -0.006 | 89 | 70115 | 5.00 | 5.46 | |
| 13 Vinyl chloride | 62 | 1.527 | 1.539 | -0.012 | 79 | 61206 | 5.00 | 5.06 | |
| 144 Butadiene | 54 | 1.545 | 1.551 | -0.006 | 92 | 66859 | 5.00 | 5.54 | |
| 14 Bromomethane | 94 | 1.801 | 1.801 | 0.000 | 79 | 32892 | 5.00 | 5.39 | M |
| 15 Chloroethane | 64 | 1.892 | 1.899 | -0.006 | 84 | 36873 | 5.00 | 5.55 | |
| 16 Dichlorofluoromethane | 67 | 2.075 | 2.081 | -0.006 | 81 | 81654 | 5.00 | 5.40 | |
| 17 Trichlorofluoromethane | 101 | 2.106 | 2.112 | -0.006 | 64 | 47409 | 5.00 | 4.96 | |
| 18 Ethyl ether | 59 | 2.313 | 2.307 | 0.006 | 94 | 46574 | 5.00 | 5.20 | |
| 20 Acrolein | 56 | 2.453 | 2.453 | 0.000 | 86 | 25319 | 25.0 | 23.5 | |
| 22 1,1-Dichloroethene | 96 | 2.502 | 2.496 | 0.006 | 78 | 46458 | 5.00 | 5.24 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.545 | 2.545 | 0.000 | 79 | 50010 | 5.00 | 5.42 | |
| 23 Acetone | 43 | 2.600 | 2.593 | 0.007 | 95 | 66887 | 25.0 | 25.7 | |
| 25 Iodomethane | 142 | 2.636 | 2.630 | 0.006 | 97 | 80122 | 5.00 | 5.29 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 99 | 169102 | 5.00 | 5.41 | |
| 28 3-Chloro-1-propene | 41 | 2.819 | 2.819 | 0.000 | 85 | 92519 | 5.00 | 5.30 | |
| 27 Methyl acetate | 43 | 2.862 | 2.862 | 0.000 | 96 | 208043 | 25.0 | 25.4 | |
| 30 Methylene Chloride | 84 | 2.947 | 2.941 | 0.006 | 90 | 51910 | 5.00 | 5.34 | |
| 31 2-Methyl-2-propanol | 59 | 3.093 | 3.087 | 0.006 | 88 | 28610 | 50.0 | 56.0 | M |
| 32 Methyl tert-butyl ether | 73 | 3.148 | 3.142 | 0.006 | 90 | 157704 | 5.00 | 5.25 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.148 | 3.148 | 0.000 | 66 | 50054 | 5.00 | 5.34 | |
| 33 Acrylonitrile | 53 | 3.179 | 3.173 | 0.006 | 99 | 209514 | 50.0 | 49.9 | |
| 35 Hexane | 57 | 3.337 | 3.331 | 0.006 | 93 | 89521 | 5.00 | 5.41 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 96 | 101743 | 5.00 | 5.35 | |
| 37 Vinyl acetate | 43 | 3.545 | 3.545 | 0.000 | 96 | 230927 | 10.0 | 10.1 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 87 | 52067 | 5.00 | 5.59 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 74 | 54393 | 5.00 | 5.36 | |
| 43 2-Butanone (MEK) | 43 | 3.996 | 3.990 | 0.006 | 99 | 133850 | 25.0 | 25.5 | |
| 48 Chlorobromomethane | 128 | 4.154 | 4.154 | 0.000 | 90 | 26717 | 5.00 | 5.26 | |
| 49 Tetrahydrofuran | 42 | 4.197 | 4.191 | 0.006 | 86 | 36520 | 10.0 | 10.5 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 82 | 90450 | 5.00 | 5.34 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 92 | 73487 | 5.00 | 5.38 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 82 | 106346 | 5.00 | 5.40 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 77 | 67160 | 5.00 | 5.33 | |
| 54 1,1-Dichloropropene | 75 | 4.447 | 4.447 | 0.000 | 90 | 67707 | 5.00 | 5.31 | |
| 53 Isobutyl alcohol | 43 | 4.611 | 4.605 | 0.006 | 85 | 52380 | 125.0 | 123.7 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 94 | 196139 | 5.00 | 5.32 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 85 | 72246 | 5.00 | 5.19 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 94 | 105856 | 5.00 | 5.56 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 93 | 50178 | 5.00 | 5.27 | |
| 64 Methylcyclohexane | 83 | 5.209 | 5.209 | 0.000 | 95 | 93295 | 5.00 | 5.36 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 92 | 52779 | 5.00 | 5.17 | |
| 67 Dibromomethane | 93 | 5.392 | 5.386 | 0.006 | 87 | 31701 | 5.00 | 5.23 | |
| 66 1,4-Dioxane | 88 | 5.410 | 5.404 | 0.006 | 69 | 6674 | 100.0 | 100.6 | M |
| 68 Dichlorobromomethane | 83 | 5.508 | 5.508 | 0.000 | 90 | 67325 | 5.00 | 5.15 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 87 | 36105 | 5.00 | 5.05 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.831 | 5.831 | 0.000 | 83 | 79874 | 5.00 | 4.75 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.940 | 5.940 | 0.000 | 97 | 321478 | 25.0 | 25.7 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 96 | 117239 | 5.00 | 5.13 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.270 | 6.264 | 0.006 | 90 | 70599 | 5.00 | 4.71 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 90 | 66444 | 5.00 | 4.99 | |
| 79 1,1,2-Trichloroethane | 83 | 6.410 | 6.416 | -0.006 | 87 | 36014 | 5.00 | 4.96 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 89 | 51054 | 5.00 | 5.13 | |
| 82 1,3-Dichloropropane | 76 | 6.538 | 6.538 | 0.000 | 93 | 75455 | 5.00 | 4.97 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 97 | 214427 | 25.0 | 25.1 | |
| 83 Chlorodibromomethane | 129 | 6.721 | 6.721 | 0.000 | 84 | 47902 | 4.90 | 4.80 | |
| 84 Ethylene Dibromide | 107 | 6.806 | 6.812 | -0.006 | 95 | 46118 | 5.00 | 5.02 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 92 | 130036 | 5.00 | 5.06 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 99 | 218952 | 5.00 | 5.06 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 39 | 47002 | 5.00 | 5.12 | |
| 90 m-Xylene & p-Xylene | 106 | 7.337 | 7.336 | 0.000 | 0 | 85529 | 5.00 | 5.10 | |
| 91 o-Xylene | 106 | 7.660 | 7.660 | 0.000 | 97 | 84312 | 5.00 | 5.07 | |
| 92 Styrene | 104 | 7.678 | 7.678 | 0.000 | 94 | 141835 | 5.00 | 5.02 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 92 | 31307 | 5.00 | 4.75 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 95 | 225174 | 5.00 | 5.00 | |
| 101 Bromobenzene | 156 | 8.227 | 8.227 | 0.000 | 96 | 53085 | 5.00 | 4.97 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 89 | 63921 | 5.00 | 4.96 | |
| 100 1,2,3-Trichloropropane | 110 | 8.275 | 8.275 | 0.000 | 81 | 18154 | 5.00 | 4.77 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.281 | 0.000 | 56 | 12534 | 5.00 | 4.09 | |
| 99 N-Propylbenzene | 91 | 8.288 | 8.288 | 0.000 | 98 | 262938 | 5.00 | 5.01 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 95 | 51490 | 5.00 | 5.11 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.428 | 8.428 | 0.000 | 75 | 186723 | 5.00 | 5.06 | |
| 105 4-Chlorotoluene | 126 | 8.464 | 8.464 | 0.000 | 97 | 52546 | 5.00 | 5.04 | |
| 106 tert-Butylbenzene | 134 | 8.696 | 8.696 | 0.000 | 92 | 37756 | 5.00 | 4.89 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.739 | 8.745 | -0.006 | 97 | 190998 | 5.00 | 5.03 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 93 | 238329 | 5.00 | 5.05 | |
| 110 4-Isopropyltoluene | 119 | 8.995 | 8.995 | 0.000 | 96 | 202298 | 5.00 | 5.13 | |
| 111 1,3-Dichlorobenzene | 146 | 9.001 | 9.001 | 0.000 | 95 | 101861 | 5.00 | 5.05 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 92 | 101286 | 5.00 | 5.01 | |
| 115 n-Butylbenzene | 91 | 9.342 | 9.336 | 0.006 | 97 | 189344 | 5.00 | 5.16 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 95 | 98342 | 5.00 | 5.00 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.062 | 10.055 | 0.007 | 59 | 12881 | 5.00 | 4.88 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 92 | 69811 | 5.00 | 4.98 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 91 | 36594 | 5.00 | 5.25 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 97 | 183259 | 5.00 | 4.91 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.135 | 11.141 | -0.006 | 93 | 64866 | 5.00 | 5.03 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 10.7 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 9.46 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 25.7 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 10.2 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1211.D

Injection Date: 22-Apr-2014 06:01:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC 2

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

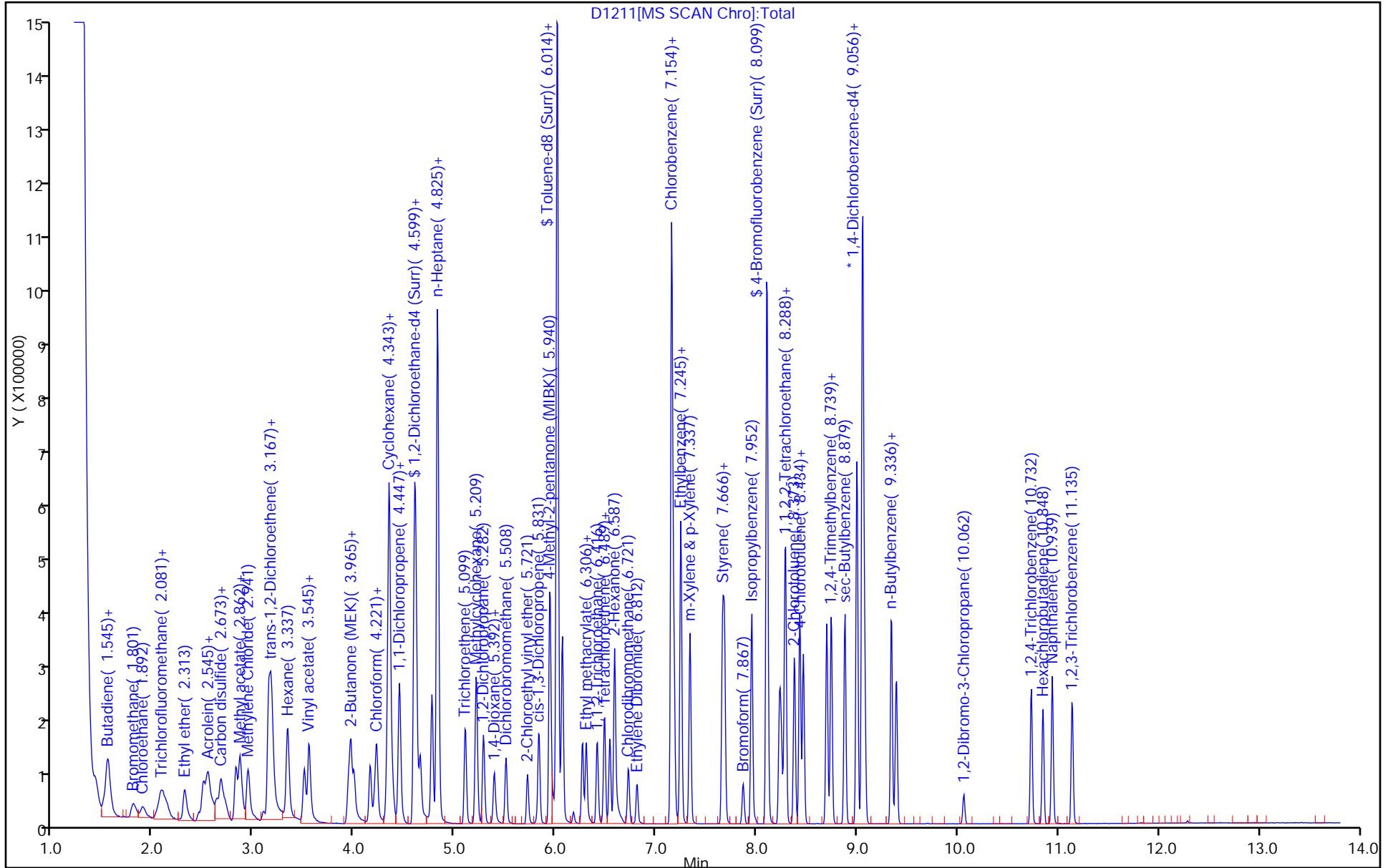
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



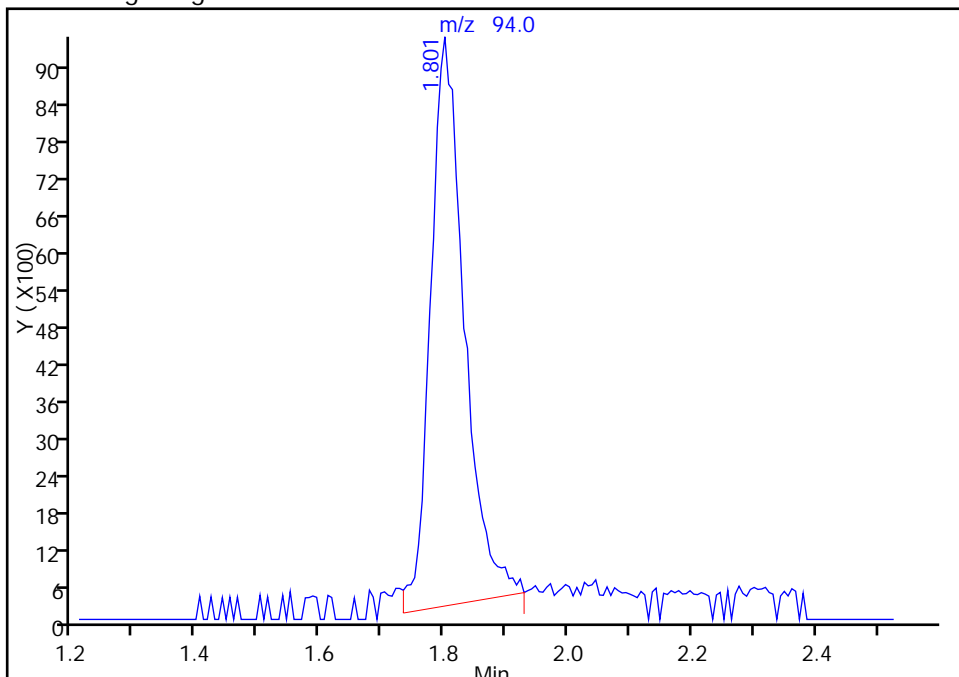
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1211.D
Injection Date: 22-Apr-2014 06:01:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

14 Bromomethane, CAS: 74-83-9

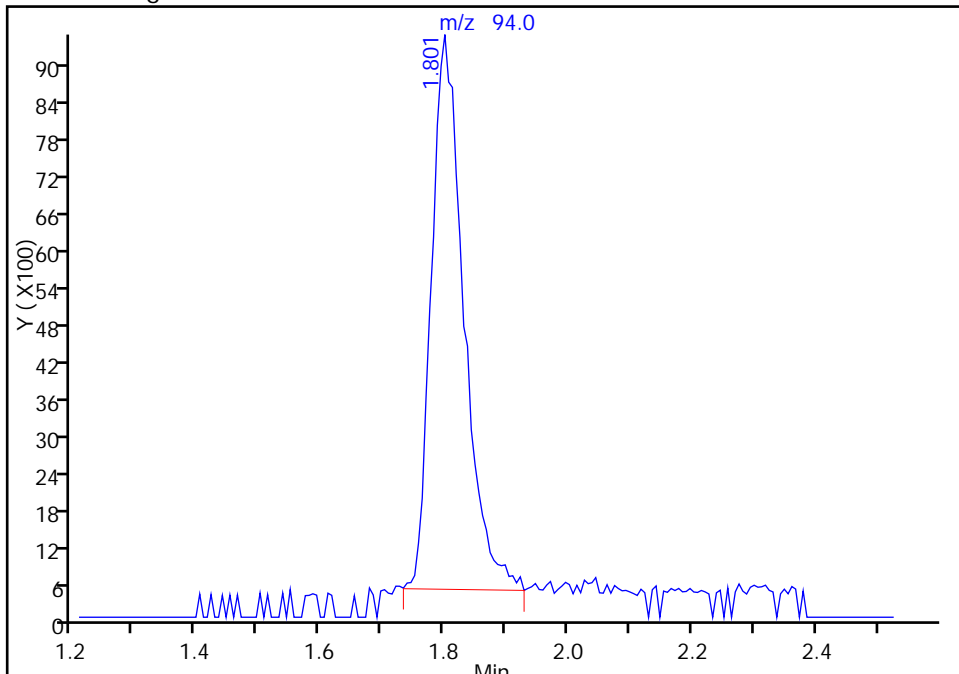
RT: 1.80
Response: 35071
Amount: 5.676531

Processing Integration Results



RT: 1.80
Response: 32892
Amount: 5.387175

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:43:45
Audit Action: Manually Integrated
Audit Reason: Baseline

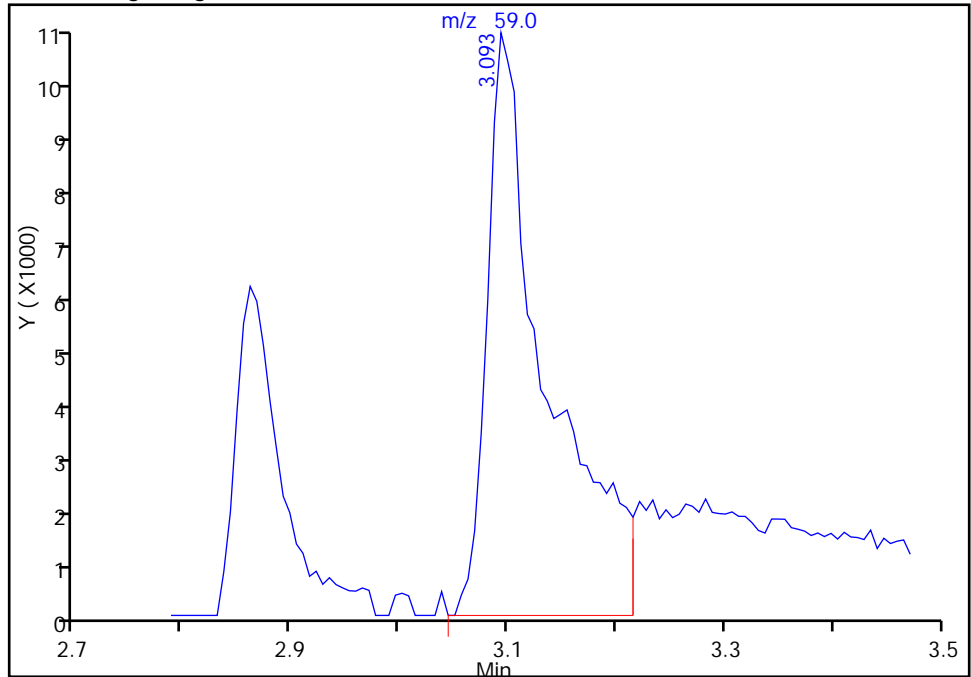
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1211.D
Injection Date: 22-Apr-2014 06:01:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

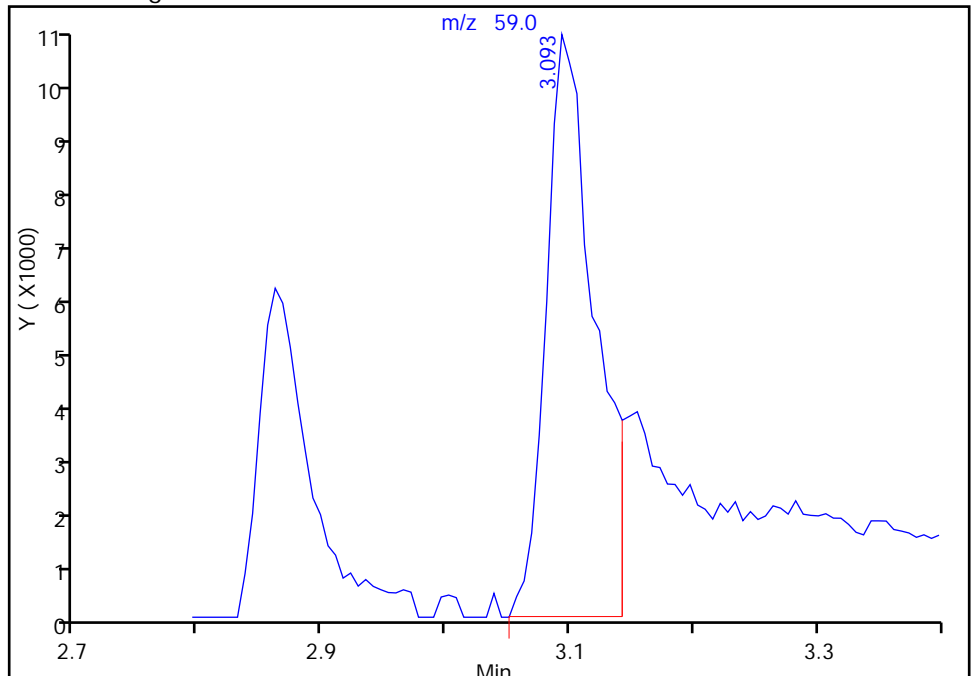
RT: 3.09
Response: 39980
Amount: 60.264683

Processing Integration Results



RT: 3.09
Response: 28610
Amount: 56.002019

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:50:04
Audit Action: Manually Integrated
Audit Reason: Coelution

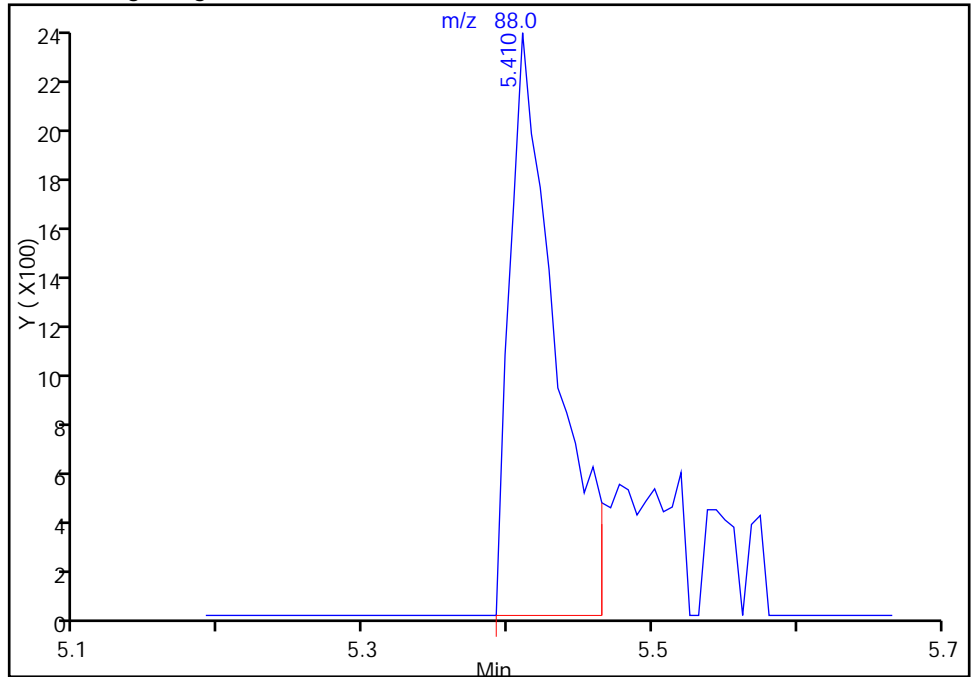
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1211.D
Injection Date: 22-Apr-2014 06:01:30 Instrument ID: HP5975D
Lims ID: IC 2
Client ID:
Operator ID: CDC ALS Bottle#: 4 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

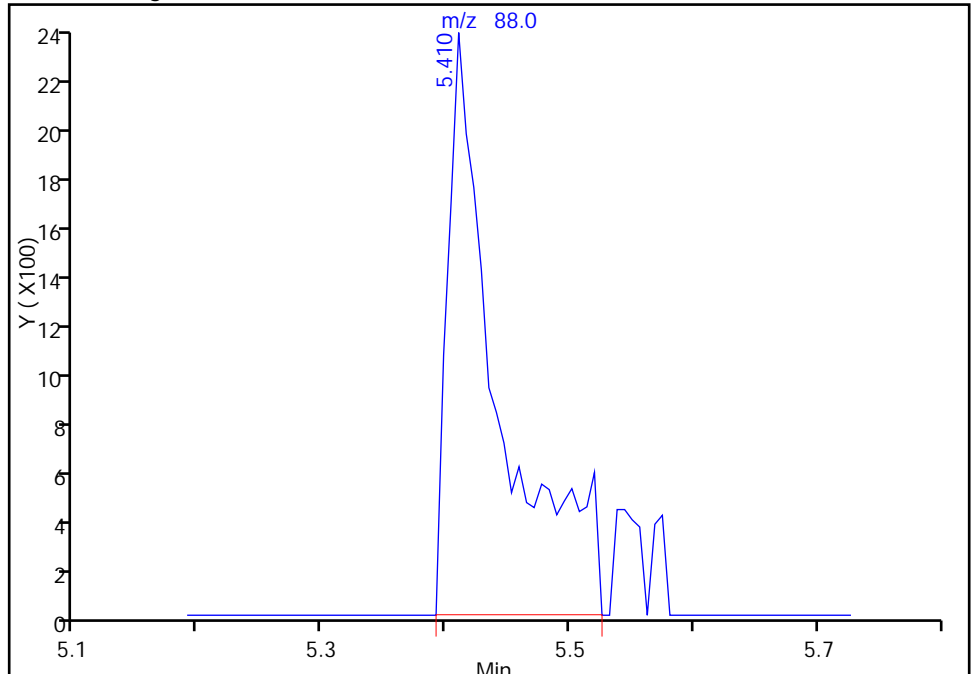
RT: 5.41
Response: 5134
Amount: 82.980934

Processing Integration Results



RT: 5.41
Response: 6674
Amount: 100.6039

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:37:33
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1212.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 22-Apr-2014 06:22:30 ALS Bottle#: 5 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0031313-007
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:48 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:48

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 98 | 159332 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.154 | 7.154 | 0.000 | 87 | 311267 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 95 | 273920 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 82 | 236389 | 25.0 | 24.9 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 155938 | 25.0 | 25.0 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.014 | 6.014 | 0.000 | 92 | 882694 | 25.0 | 25.4 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 89 | 264503 | 25.0 | 25.6 | |
| 10 Dichlorodifluoromethane | 85 | 1.325 | 1.325 | 0.000 | 78 | 92410 | 10.0 | 9.86 | |
| 12 Chloromethane | 50 | 1.429 | 1.429 | 0.000 | 88 | 135651 | 10.0 | 9.76 | |
| 13 Vinyl chloride | 62 | 1.533 | 1.533 | 0.000 | 80 | 122006 | 10.0 | 9.32 | |
| 144 Butadiene | 54 | 1.557 | 1.557 | 0.000 | 93 | 127858 | 10.0 | 9.79 | |
| 14 Bromomethane | 94 | 1.813 | 1.813 | 0.000 | 87 | 62037 | 10.0 | 9.39 | |
| 15 Chloroethane | 64 | 1.911 | 1.911 | 0.000 | 91 | 70961 | 10.0 | 9.86 | |
| 16 Dichlorofluoromethane | 67 | 2.081 | 2.081 | 0.000 | 82 | 159156 | 10.0 | 9.72 | |
| 17 Trichlorofluoromethane | 101 | 2.045 | 2.045 | 0.000 | 80 | 96629 | 10.0 | 9.33 | |
| 18 Ethyl ether | 59 | 2.313 | 2.313 | 0.000 | 94 | 97068 | 10.0 | 10.0 | |
| 20 Acrolein | 56 | 2.453 | 2.453 | 0.000 | 88 | 55393 | 50.0 | 47.6 | |
| 22 1,1-Dichloroethene | 96 | 2.496 | 2.496 | 0.000 | 85 | 93526 | 10.0 | 9.74 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.551 | 2.551 | 0.000 | 84 | 99530 | 10.0 | 9.96 | |
| 23 Acetone | 43 | 2.593 | 2.593 | 0.000 | 97 | 132249 | 50.0 | 46.9 | |
| 25 Iodomethane | 142 | 2.630 | 2.630 | 0.000 | 98 | 160199 | 10.0 | 9.78 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 99 | 329484 | 10.0 | 9.74 | |
| 28 3-Chloro-1-propene | 41 | 2.819 | 2.819 | 0.000 | 84 | 185581 | 10.0 | 9.82 | |
| 27 Methyl acetate | 43 | 2.862 | 2.862 | 0.000 | 96 | 446164 | 50.0 | 50.3 | |
| 30 Methylene Chloride | 84 | 2.941 | 2.941 | 0.000 | 91 | 104437 | 10.0 | 9.92 | M |
| 31 2-Methyl-2-propanol | 59 | 3.093 | 3.093 | 0.000 | 97 | 58923 | 100.0 | 106.6 | M |
| 32 Methyl tert-butyl ether | 73 | 3.148 | 3.148 | 0.000 | 90 | 326454 | 10.0 | 10.0 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.148 | 3.148 | 0.000 | 93 | 101557 | 10.0 | 10.0 | |
| 33 Acrylonitrile | 53 | 3.179 | 3.179 | 0.000 | 97 | 427963 | 100.0 | 94.2 | |
| 35 Hexane | 57 | 3.331 | 3.331 | 0.000 | 93 | 173126 | 10.0 | 9.66 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 85 | 203652 | 10.0 | 9.90 | |
| 37 Vinyl acetate | 43 | 3.551 | 3.551 | 0.000 | 97 | 503581 | 20.0 | 20.4 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 89 | 100553 | 10.0 | 9.98 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 73 | 108696 | 10.0 | 9.89 | |
| 43 2-Butanone (MEK) | 43 | 3.996 | 3.996 | 0.000 | 99 | 272631 | 50.0 | 47.9 | |
| 48 Chlorobromomethane | 128 | 4.160 | 4.160 | 0.000 | 94 | 54683 | 10.0 | 9.95 | |
| 49 Tetrahydrofuran | 42 | 4.197 | 4.197 | 0.000 | 89 | 75680 | 20.0 | 20.2 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 82 | 181844 | 10.0 | 9.92 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 92 | 147730 | 10.0 | 10.0 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 94 | 211209 | 10.0 | 9.91 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 77 | 135529 | 10.0 | 9.94 | |
| 54 1,1-Dichloropropene | 75 | 4.453 | 4.453 | 0.000 | 93 | 136694 | 10.0 | 9.90 | |
| 53 Isobutyl alcohol | 43 | 4.611 | 4.611 | 0.000 | 93 | 108704 | 250.0 | 237.3 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 96 | 398373 | 10.0 | 9.97 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 89 | 157860 | 10.0 | 10.5 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 94 | 209998 | 10.0 | 10.2 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 92 | 103295 | 10.0 | 10.0 | |
| 64 Methylcyclohexane | 83 | 5.209 | 5.209 | 0.000 | 94 | 184602 | 10.0 | 9.81 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 93 | 111882 | 10.0 | 10.1 | |
| 67 Dibromomethane | 93 | 5.392 | 5.392 | 0.000 | 91 | 67064 | 10.0 | 10.2 | |
| 66 1,4-Dioxane | 88 | 5.416 | 5.416 | 0.000 | 86 | 15738 | 200.0 | 210.4 | M |
| 68 Dichlorobromomethane | 83 | 5.508 | 5.508 | 0.000 | 92 | 141438 | 10.0 | 10.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 91 | 80788 | 10.0 | 10.4 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.837 | 5.837 | 0.000 | 88 | 173543 | 10.0 | 9.53 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.940 | 5.940 | 0.000 | 98 | 685812 | 50.0 | 51.9 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 96 | 242092 | 10.0 | 10.0 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.270 | 6.270 | 0.000 | 92 | 152671 | 10.0 | 9.62 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 91 | 145739 | 10.0 | 10.3 | |
| 79 1,1,2-Trichloroethane | 83 | 6.416 | 6.416 | 0.000 | 88 | 78412 | 10.0 | 10.2 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 91 | 105988 | 10.0 | 10.1 | |
| 82 1,3-Dichloropropane | 76 | 6.538 | 6.538 | 0.000 | 93 | 164468 | 10.0 | 10.2 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 97 | 468121 | 50.0 | 51.7 | |
| 83 Chlorodibromomethane | 129 | 6.727 | 6.727 | 0.000 | 88 | 103513 | 9.80 | 9.79 | |
| 84 Ethylene Dibromide | 107 | 6.812 | 6.812 | 0.000 | 98 | 99231 | 10.0 | 10.2 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 93 | 274374 | 10.0 | 10.1 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 40 | 97528 | 10.0 | 10.0 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 99 | 464193 | 10.0 | 10.1 | |
| 90 m-Xylene & p-Xylene | 106 | 7.336 | 7.336 | 0.000 | 0 | 179380 | 10.0 | 10.1 | |
| 91 o-Xylene | 106 | 7.660 | 7.660 | 0.000 | 97 | 178863 | 10.0 | 10.2 | |
| 92 Styrene | 104 | 7.678 | 7.678 | 0.000 | 94 | 303872 | 10.0 | 10.2 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 96 | 69826 | 10.0 | 10.0 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 96 | 475767 | 10.0 | 9.98 | |
| 101 Bromobenzene | 156 | 8.226 | 8.226 | 0.000 | 96 | 112950 | 10.0 | 9.97 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 88 | 136822 | 10.0 | 10.0 | |
| 100 1,2,3-Trichloropropane | 110 | 8.275 | 8.275 | 0.000 | 82 | 40543 | 10.0 | 10.1 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.281 | 0.000 | 68 | 32204 | 10.0 | 8.57 | |
| 99 N-Propylbenzene | 91 | 8.287 | 8.287 | 0.000 | 98 | 558025 | 10.0 | 10.0 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 95 | 106794 | 10.0 | 10.0 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.428 | 8.428 | 0.000 | 72 | 394823 | 10.0 | 10.1 | |
| 105 4-Chlorotoluene | 126 | 8.464 | 8.464 | 0.000 | 97 | 110289 | 10.0 | 9.98 | |
| 106 tert-Butylbenzene | 134 | 8.696 | 8.696 | 0.000 | 92 | 83556 | 10.0 | 10.2 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.739 | 8.739 | 0.000 | 97 | 410607 | 10.0 | 10.2 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 94 | 506463 | 10.0 | 10.1 | |
| 110 4-Isopropyltoluene | 119 | 8.995 | 8.995 | 0.000 | 96 | 426799 | 10.0 | 10.2 | |
| 111 1,3-Dichlorobenzene | 146 | 9.001 | 9.001 | 0.000 | 96 | 216674 | 10.0 | 10.1 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 92 | 216233 | 10.0 | 10.1 | |
| 115 n-Butylbenzene | 91 | 9.342 | 9.342 | 0.000 | 97 | 396065 | 10.0 | 10.2 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 95 | 209441 | 10.0 | 10.0 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.061 | 10.061 | 0.000 | 70 | 27990 | 10.0 | 10.0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 93 | 149253 | 10.0 | 10.1 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 94 | 76287 | 10.0 | 10.6 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 97 | 394643 | 10.0 | 9.97 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.141 | 11.141 | 0.000 | 94 | 136232 | 10.0 | 9.97 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 50.4 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 20.3 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 19.9 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 19.1 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1212.D

Injection Date: 22-Apr-2014 06:22:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC 3

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

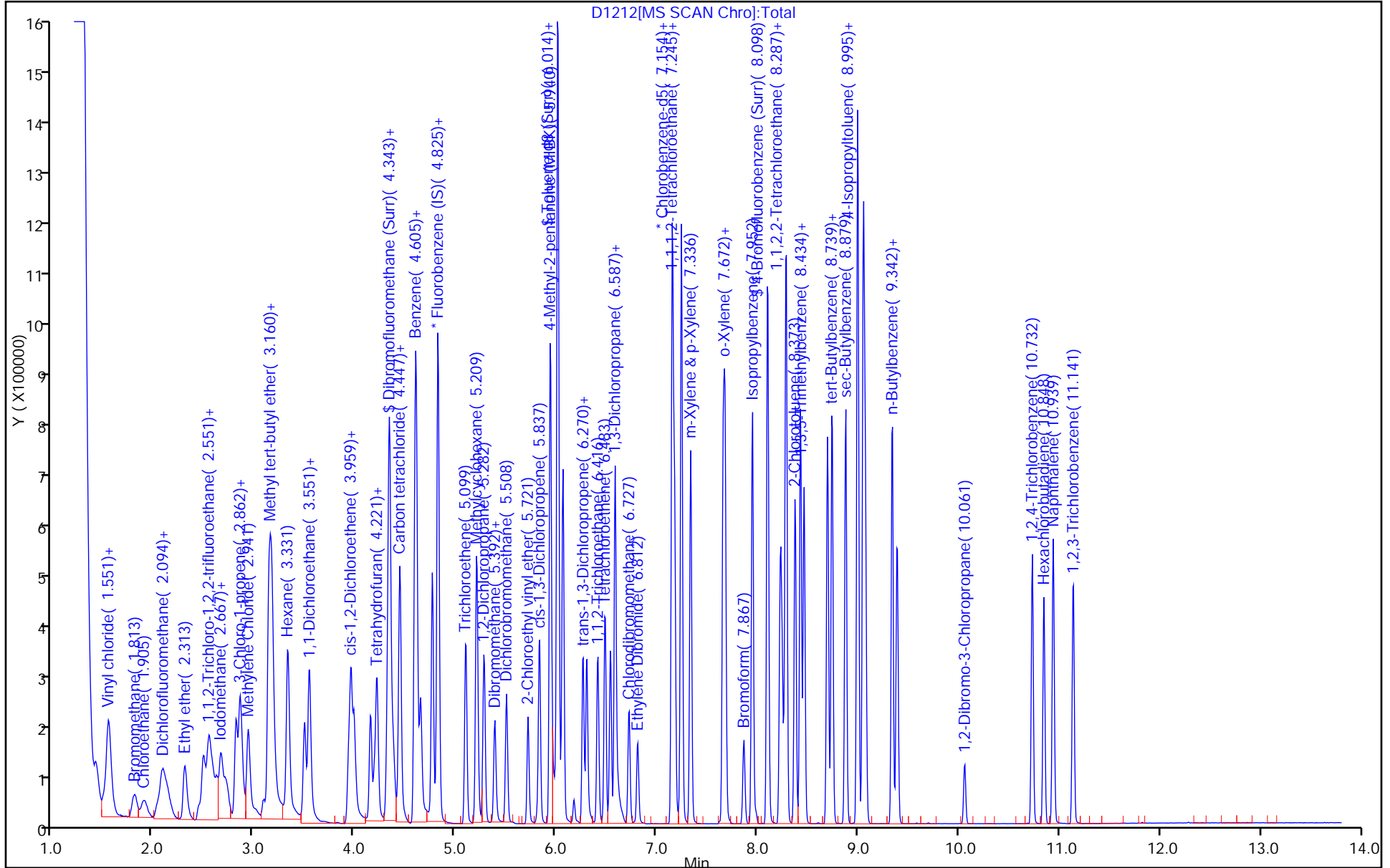
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



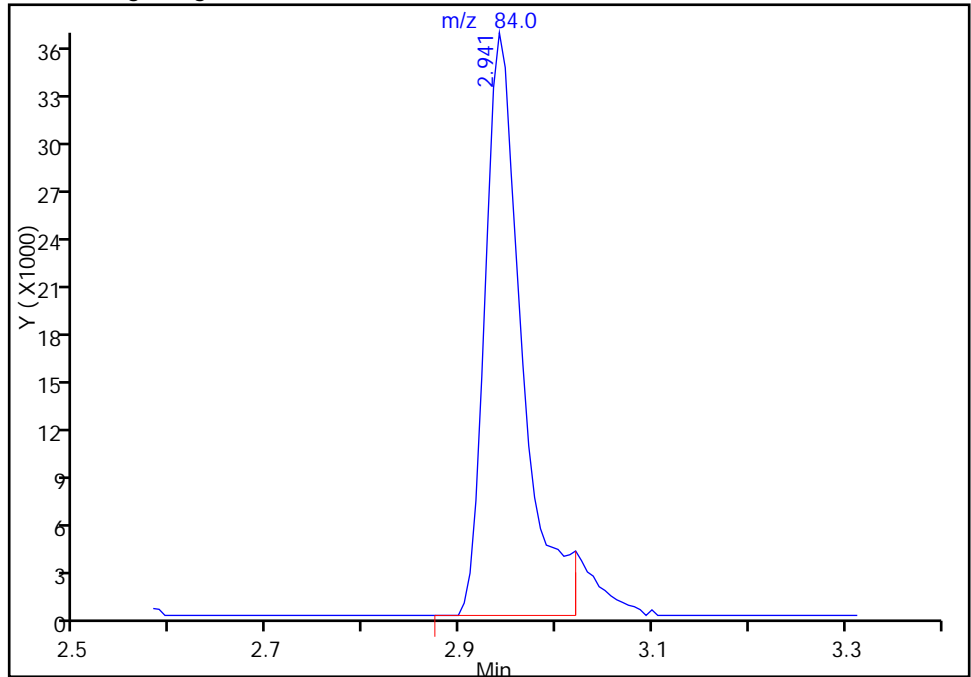
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1212.D
Injection Date: 22-Apr-2014 06:22:30 Instrument ID: HP5975D
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

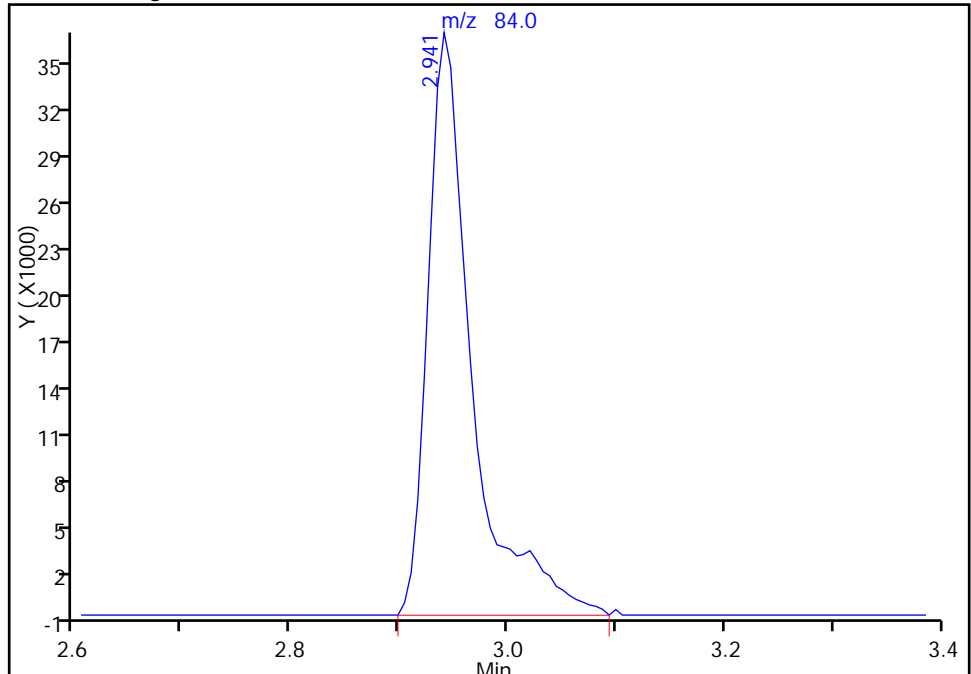
RT: 2.94
Response: 98217
Amount: 9.418372

Processing Integration Results



RT: 2.94
Response: 104437
Amount: 9.916252

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:44:53
Audit Action: Manually Integrated
Audit Reason: Peak Tail

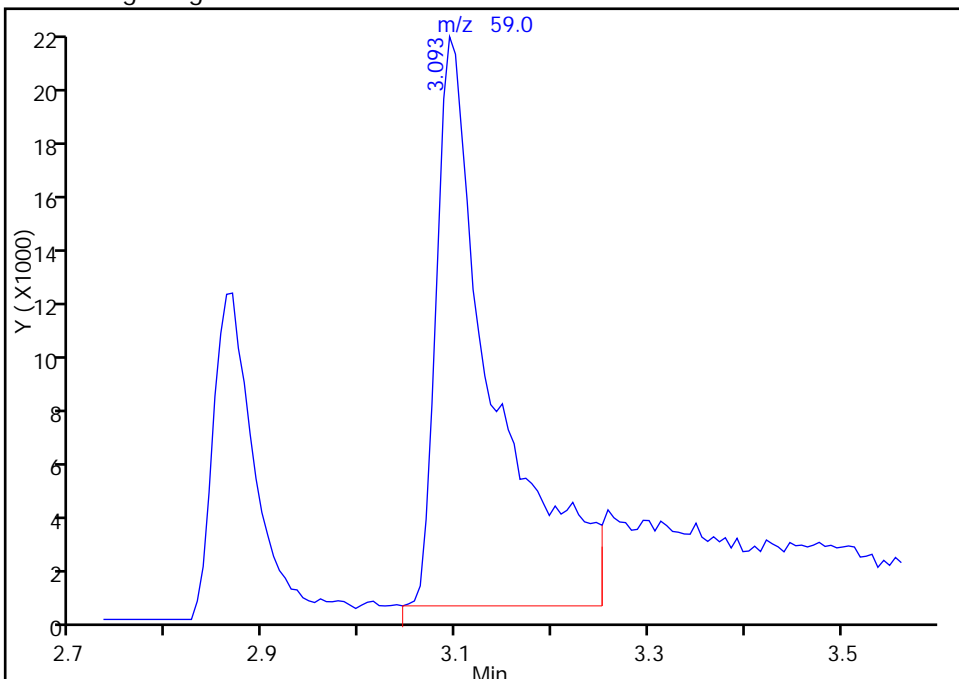
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1212.D
Injection Date: 22-Apr-2014 06:22:30 Instrument ID: HP5975D
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

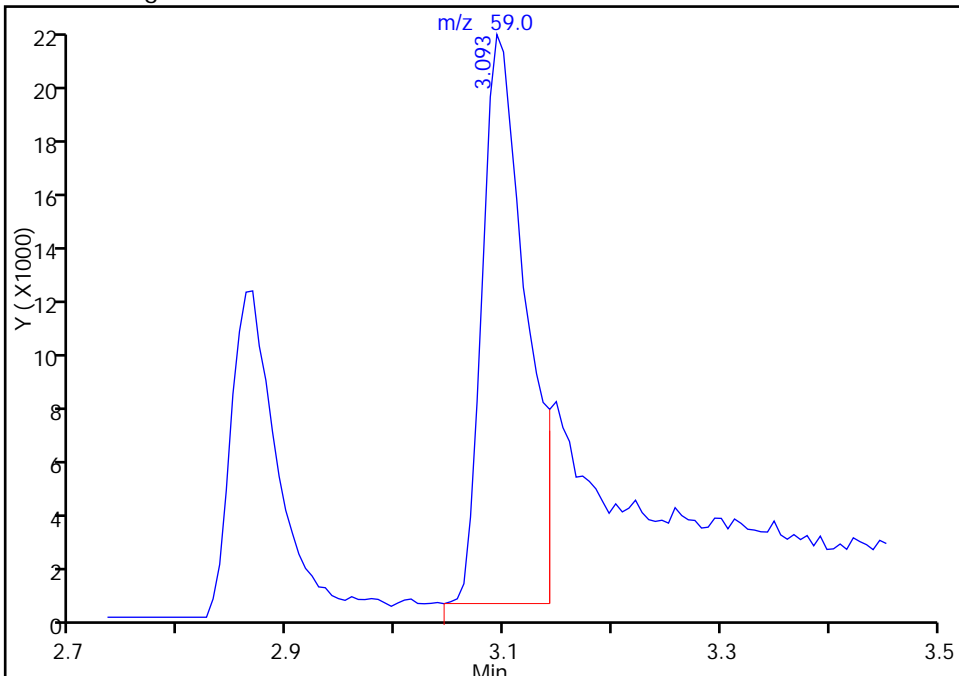
RT: 3.09
Response: 86299
Amount: 127.4596

Processing Integration Results



RT: 3.09
Response: 58923
Amount: 106.5540

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:50:23
Audit Action: Manually Integrated
Audit Reason: Coelution

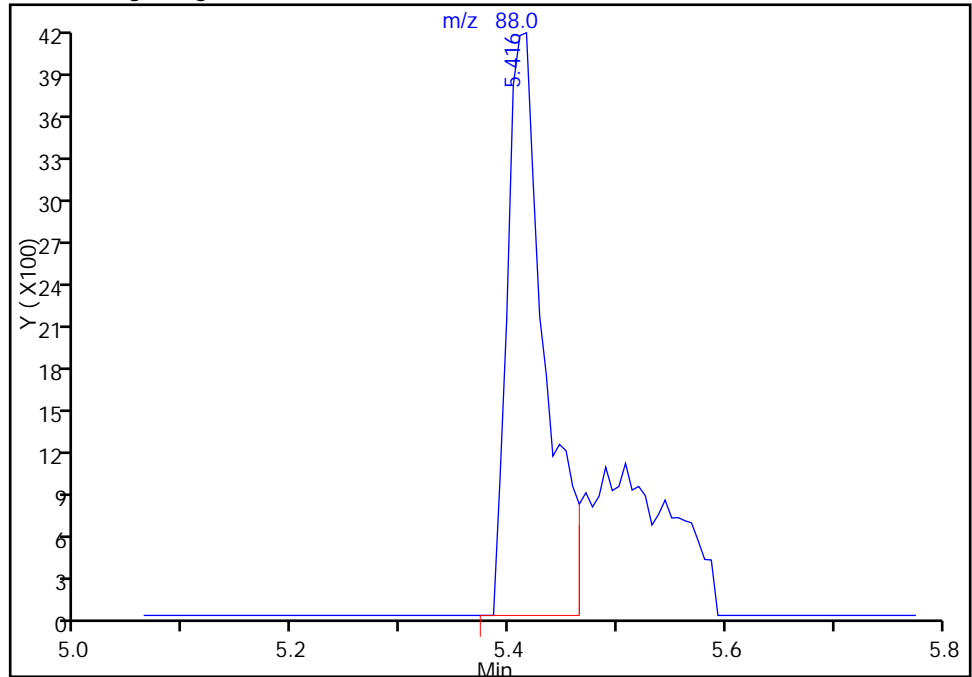
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1212.D
Injection Date: 22-Apr-2014 06:22:30 Instrument ID: HP5975D
Lims ID: IC 3
Client ID:
Operator ID: CDC ALS Bottle#: 5 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

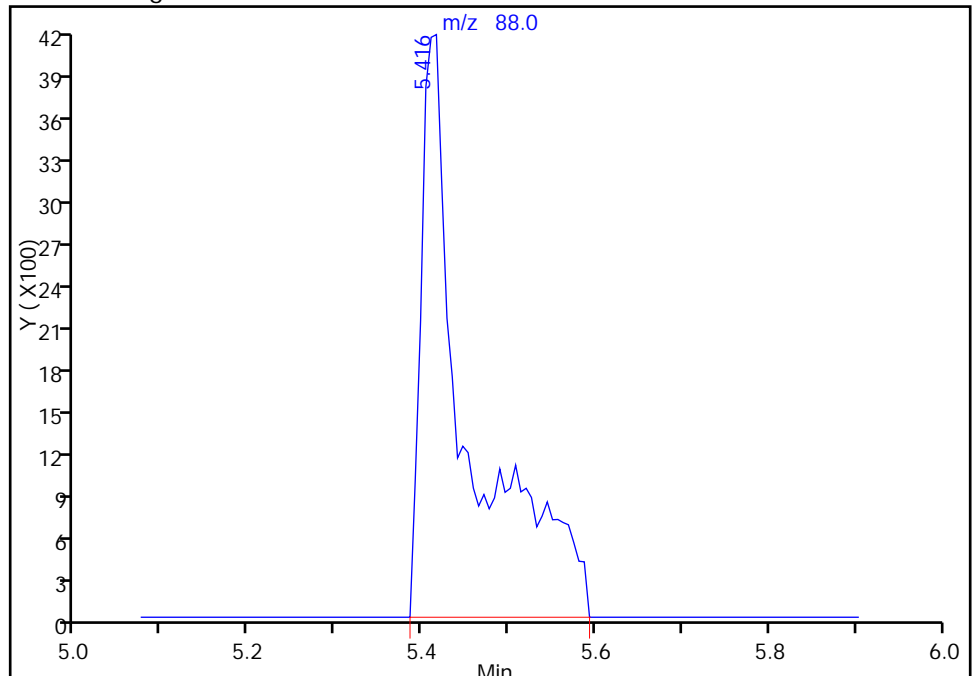
RT: 5.42
Response: 10080
Amount: 183.4048

Processing Integration Results



RT: 5.42
Response: 15738
Amount: 210.3887

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 11:31:05
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1213.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 22-Apr-2014 06:43:30 ALS Bottle#: 6 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0031313-008
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1213.D
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:53 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:53

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 97 | 151606 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.154 | 7.154 | 0.000 | 86 | 293975 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 93 | 255178 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 71 | 230968 | 25.0 | 25.6 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 146396 | 25.0 | 24.7 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.014 | 6.014 | 0.000 | 92 | 820354 | 25.0 | 25.0 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 89 | 242328 | 25.0 | 24.8 | |
| 10 Dichlorodifluoromethane | 85 | 1.325 | 1.325 | 0.000 | 86 | 234194 | 25.0 | 26.3 | |
| 12 Chloromethane | 50 | 1.435 | 1.435 | 0.000 | 89 | 329272 | 25.0 | 24.9 | |
| 13 Vinyl chloride | 62 | 1.539 | 1.539 | 0.000 | 83 | 306848 | 25.0 | 24.6 | |
| 144 Butadiene | 54 | 1.551 | 1.551 | 0.000 | 93 | 308740 | 25.0 | 24.8 | |
| 14 Bromomethane | 94 | 1.801 | 1.801 | 0.000 | 90 | 165682 | 25.0 | 26.3 | |
| 15 Chloroethane | 64 | 1.899 | 1.899 | 0.000 | 95 | 176552 | 25.0 | 25.8 | |
| 16 Dichlorofluoromethane | 67 | 2.081 | 2.081 | 0.000 | 83 | 407312 | 25.0 | 26.2 | |
| 17 Trichlorofluoromethane | 101 | 2.112 | 2.112 | 0.000 | 84 | 274403 | 25.0 | 27.9 | |
| 18 Ethyl ether | 59 | 2.307 | 2.307 | 0.000 | 94 | 235384 | 25.0 | 25.5 | |
| 20 Acrolein | 56 | 2.453 | 2.453 | 0.000 | 91 | 149245 | 125.0 | 134.7 | |
| 22 1,1-Dichloroethene | 96 | 2.496 | 2.496 | 0.000 | 86 | 232392 | 25.0 | 25.4 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.545 | 2.545 | 0.000 | 87 | 246523 | 25.0 | 25.9 | |
| 23 Acetone | 43 | 2.593 | 2.593 | 0.000 | 97 | 324637 | 125.0 | 121.0 | |
| 25 Iodomethane | 142 | 2.630 | 2.630 | 0.000 | 99 | 403262 | 25.0 | 25.9 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 100 | 828882 | 25.0 | 25.8 | |
| 28 3-Chloro-1-propene | 41 | 2.819 | 2.819 | 0.000 | 84 | 455604 | 25.0 | 25.3 | |
| 27 Methyl acetate | 43 | 2.862 | 2.862 | 0.000 | 96 | 1045785 | 125.0 | 123.8 | |
| 30 Methylene Chloride | 84 | 2.941 | 2.941 | 0.000 | 92 | 260208 | 25.0 | 26.0 | |
| 31 2-Methyl-2-propanol | 59 | 3.087 | 3.087 | 0.000 | 99 | 134309 | 250.0 | 255.3 | M |
| 32 Methyl tert-butyl ether | 73 | 3.142 | 3.142 | 0.000 | 90 | 798456 | 25.0 | 25.8 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.148 | 3.148 | 0.000 | 92 | 248657 | 25.0 | 25.8 | |
| 33 Acrylonitrile | 53 | 3.173 | 3.173 | 0.000 | 98 | 982756 | 250.0 | 227.3 | |
| 35 Hexane | 57 | 3.331 | 3.331 | 0.000 | 93 | 422548 | 25.0 | 24.8 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 85 | 498779 | 25.0 | 25.5 | |
| 37 Vinyl acetate | 43 | 3.545 | 3.545 | 0.000 | 97 | 1143280 | 50.0 | 48.8 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 90 | 250308 | 25.0 | 26.1 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 71 | 272017 | 25.0 | 26.0 | |
| 43 2-Butanone (MEK) | 43 | 3.990 | 3.990 | 0.000 | 94 | 656505 | 125.0 | 121.3 | |
| 48 Chlorobromomethane | 128 | 4.154 | 4.154 | 0.000 | 93 | 133644 | 25.0 | 25.6 | |
| 49 Tetrahydrofuran | 42 | 4.191 | 4.191 | 0.000 | 88 | 166174 | 50.0 | 46.5 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 82 | 443121 | 25.0 | 25.4 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 92 | 362792 | 25.0 | 25.8 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 93 | 517647 | 25.0 | 25.5 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 81 | 329687 | 25.0 | 25.4 | |
| 54 1,1-Dichloropropene | 75 | 4.447 | 4.447 | 0.000 | 94 | 329444 | 25.0 | 25.1 | |
| 53 Isobutyl alcohol | 43 | 4.605 | 4.605 | 0.000 | 91 | 280549 | 625.0 | 643.5 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 98 | 944941 | 25.0 | 24.9 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 89 | 352305 | 25.0 | 24.6 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 94 | 484203 | 25.0 | 24.7 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 93 | 245299 | 25.0 | 25.0 | |
| 64 Methylcyclohexane | 83 | 5.209 | 5.209 | 0.000 | 95 | 453993 | 25.0 | 25.3 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 94 | 261475 | 25.0 | 24.9 | |
| 67 Dibromomethane | 93 | 5.386 | 5.386 | 0.000 | 91 | 155040 | 25.0 | 24.8 | |
| 66 1,4-Dioxane | 88 | 5.404 | 5.404 | 0.000 | 94 | 39487 | 500.0 | 540.4 | M |
| 68 Dichlorobromomethane | 83 | 5.508 | 5.508 | 0.000 | 92 | 335572 | 25.0 | 24.9 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 91 | 179530 | 25.0 | 24.4 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.831 | 5.831 | 0.000 | 89 | 401946 | 25.0 | 23.2 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.940 | 5.940 | 0.000 | 97 | 1568610 | 125.0 | 125.6 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 97 | 563752 | 25.0 | 24.7 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.264 | 6.264 | 0.000 | 93 | 351420 | 25.0 | 23.5 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 91 | 329641 | 25.0 | 24.8 | |
| 79 1,1,2-Trichloroethane | 83 | 6.416 | 6.416 | 0.000 | 88 | 178134 | 25.0 | 24.6 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 92 | 246331 | 25.0 | 24.8 | |
| 82 1,3-Dichloropropane | 76 | 6.538 | 6.538 | 0.000 | 93 | 373028 | 25.0 | 24.6 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 97 | 1035406 | 125.0 | 121.1 | |
| 83 Chlorodibromomethane | 129 | 6.721 | 6.721 | 0.000 | 88 | 246368 | 24.5 | 24.7 | |
| 84 Ethylene Dibromide | 107 | 6.812 | 6.812 | 0.000 | 98 | 227957 | 25.0 | 24.8 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 94 | 636707 | 25.0 | 24.8 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 99 | 1074726 | 25.0 | 24.9 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 40 | 232895 | 25.0 | 25.4 | |
| 90 m-Xylene & p-Xylene | 106 | 7.336 | 7.336 | 0.000 | 0 | 420560 | 25.0 | 25.1 | |
| 91 o-Xylene | 106 | 7.660 | 7.660 | 0.000 | 97 | 418865 | 25.0 | 25.2 | |
| 92 Styrene | 104 | 7.678 | 7.678 | 0.000 | 95 | 705745 | 25.0 | 25.0 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 96 | 167744 | 25.0 | 25.5 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 96 | 1117068 | 25.0 | 25.1 | |
| 101 Bromobenzene | 156 | 8.227 | 8.227 | 0.000 | 96 | 262636 | 25.0 | 24.9 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 88 | 316361 | 25.0 | 24.9 | |
| 100 1,2,3-Trichloropropane | 110 | 8.275 | 8.275 | 0.000 | 81 | 92625 | 25.0 | 24.7 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.281 | 0.000 | 62 | 85137 | 25.0 | 22.6 | |
| 99 N-Propylbenzene | 91 | 8.288 | 8.288 | 0.000 | 98 | 1288764 | 25.0 | 24.9 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 96 | 251781 | 25.0 | 25.3 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.428 | 8.428 | 0.000 | 72 | 923803 | 25.0 | 25.3 | |
| 105 4-Chlorotoluene | 126 | 8.464 | 8.464 | 0.000 | 97 | 250579 | 25.0 | 24.3 | |
| 106 tert-Butylbenzene | 134 | 8.696 | 8.696 | 0.000 | 93 | 189523 | 25.0 | 24.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.745 | 8.745 | 0.000 | 97 | 946399 | 25.0 | 25.2 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 95 | 1181127 | 25.0 | 25.4 | |
| 110 4-Isopropyltoluene | 119 | 8.995 | 8.995 | 0.000 | 95 | 982005 | 25.0 | 25.2 | |
| 111 1,3-Dichlorobenzene | 146 | 9.001 | 9.001 | 0.000 | 97 | 489358 | 25.0 | 24.6 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 93 | 490053 | 25.0 | 24.5 | |
| 115 n-Butylbenzene | 91 | 9.336 | 9.336 | 0.000 | 98 | 919298 | 25.0 | 25.4 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 96 | 484021 | 25.0 | 24.9 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.055 | 10.055 | 0.000 | 77 | 65808 | 25.0 | 25.2 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 90 | 354271 | 25.0 | 25.6 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 95 | 179176 | 25.0 | 27.3 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 97 | 950593 | 25.0 | 25.8 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.141 | 11.141 | 0.000 | 93 | 325788 | 25.0 | 25.6 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 51.8 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 46.6 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 124.6 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 50.3 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1213.D

Injection Date: 22-Apr-2014 06:43:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: ICIS 4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

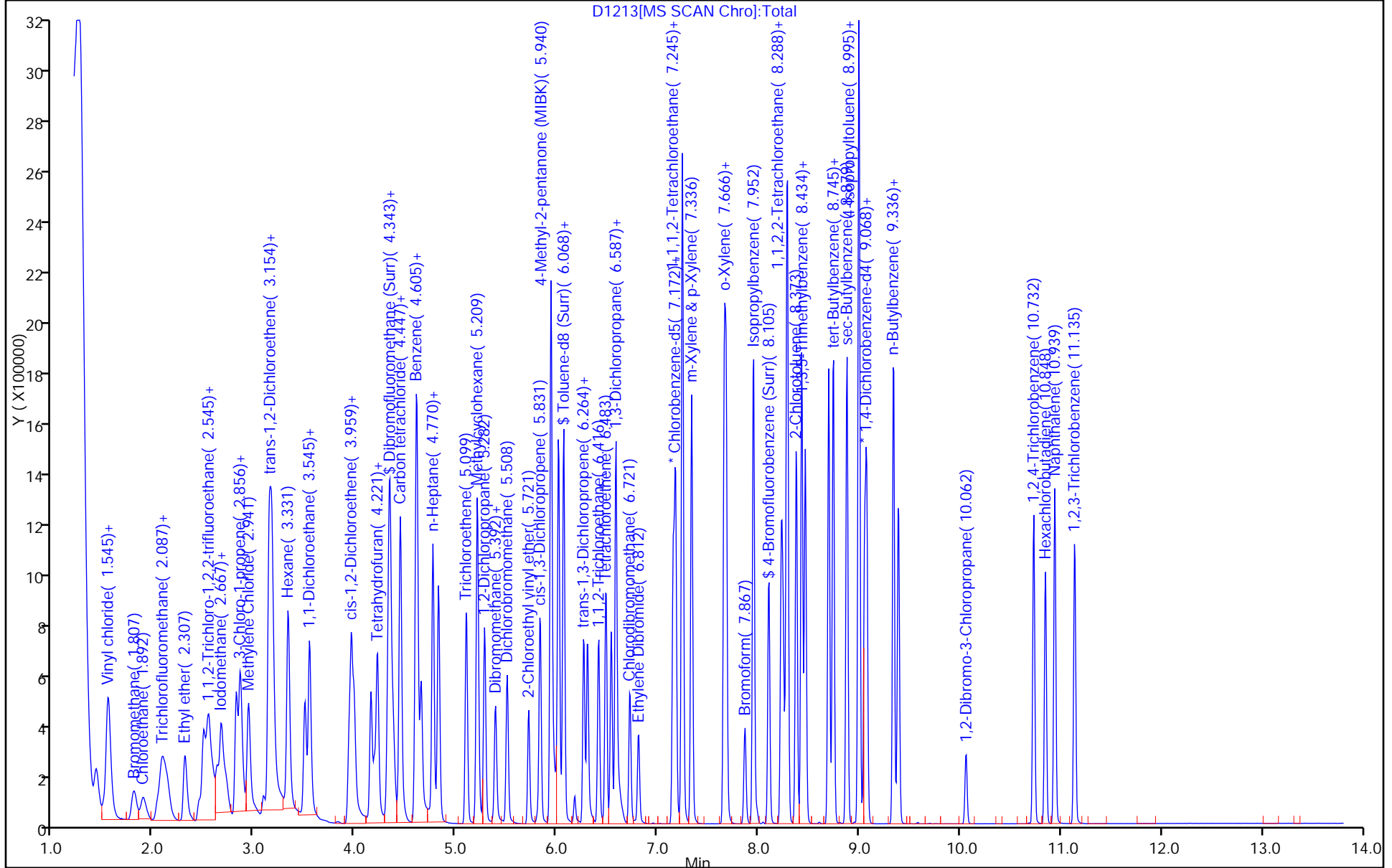
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



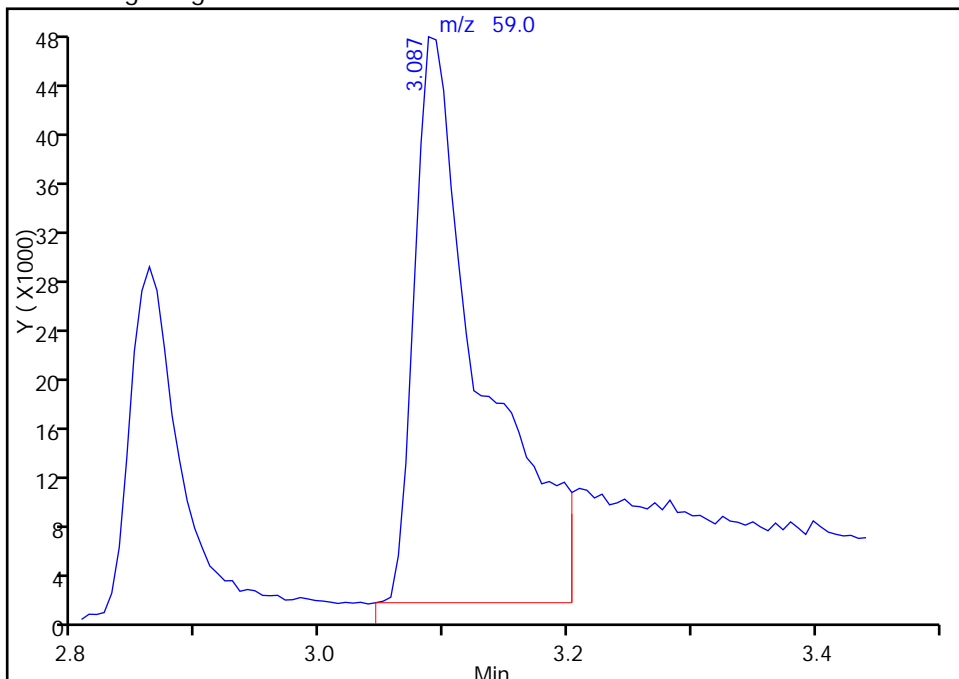
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1213.D
Injection Date: 22-Apr-2014 06:43:30 Instrument ID: HP5975D
Lims ID: ICIS 4
Client ID:
Operator ID: CDC ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

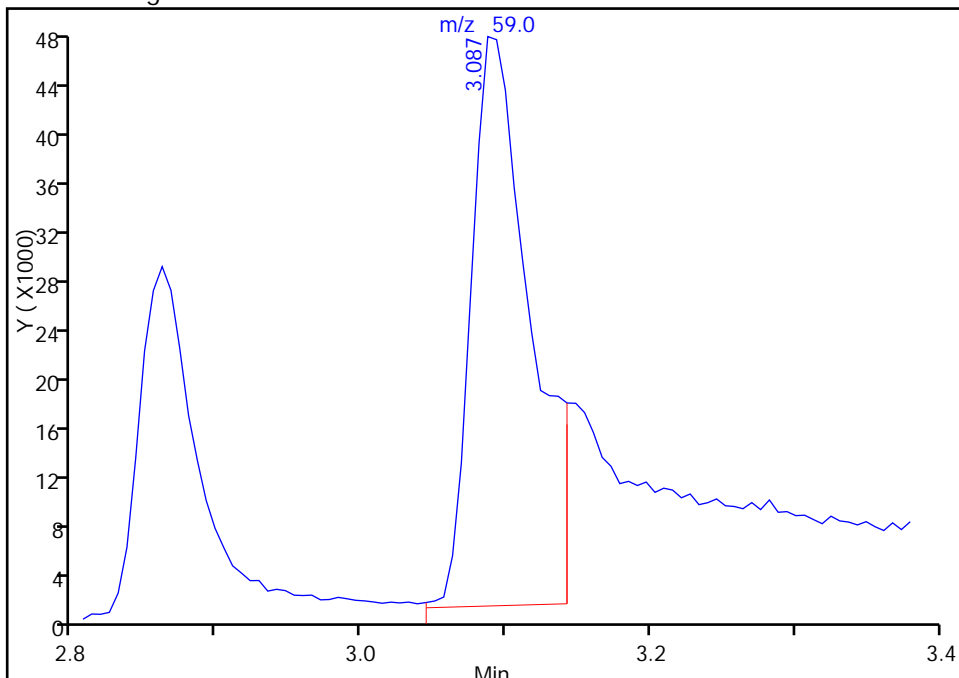
RT: 3.09
Response: 175299
Amount: 291.7643

Processing Integration Results



RT: 3.09
Response: 134309
Amount: 255.2563

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:50:44
Audit Action: Manually Integrated
Audit Reason: Coelution

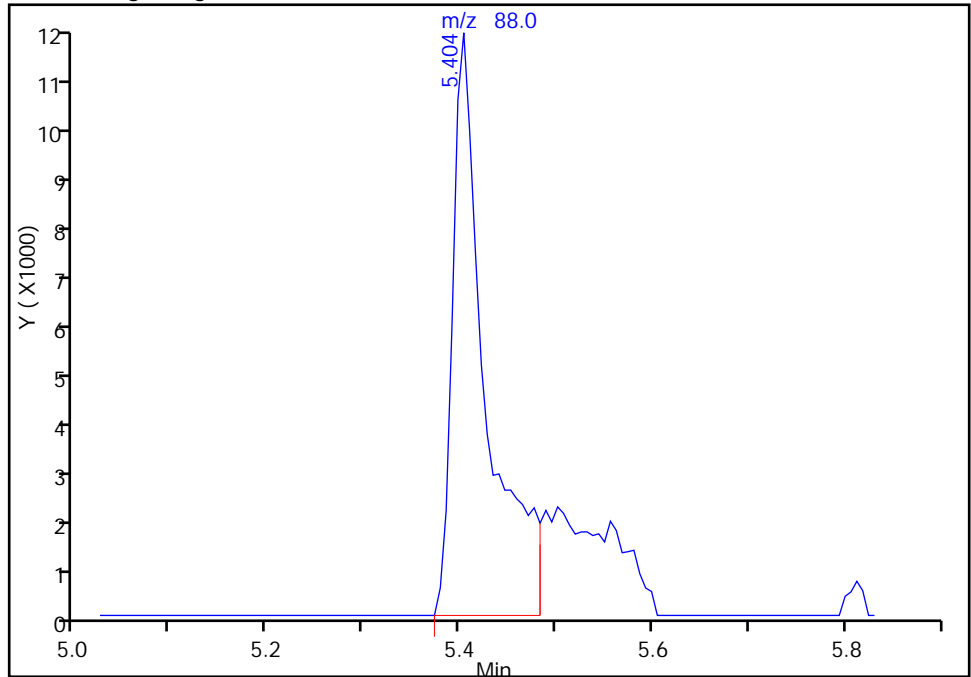
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1213.D
Injection Date: 22-Apr-2014 06:43:30 Instrument ID: HP5975D
Lims ID: ICIS 4
Client ID:
Operator ID: CDC ALS Bottle#: 6 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

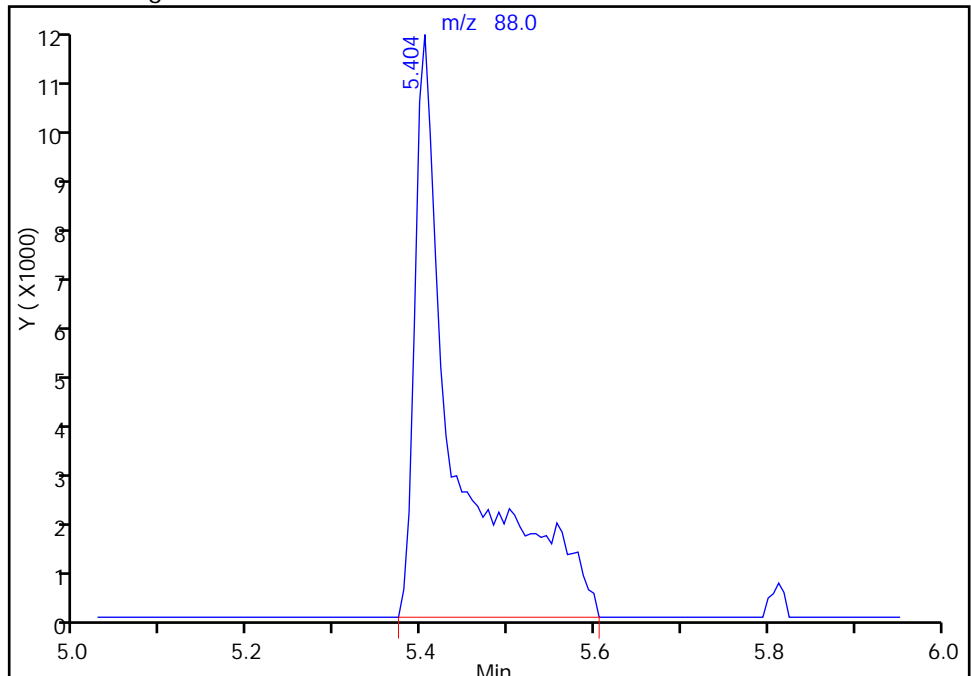
RT: 5.40
Response: 28721
Amount: 517.2219

Processing Integration Results



RT: 5.40
Response: 39487
Amount: 540.3776

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 11:32:12
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1214.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 22-Apr-2014 07:04:30 ALS Bottle#: 7 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0031313-009
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:44:58 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:44:58

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 97 | 155923 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.154 | 7.154 | 0.000 | 87 | 300019 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 68 | 254695 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 58 | 231497 | 25.0 | 24.9 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.593 | 4.593 | 0.000 | 0 | 148858 | 25.0 | 24.4 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.020 | 6.014 | 0.006 | 91 | 830424 | 25.0 | 24.8 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 89 | 248686 | 25.0 | 24.9 | |
| 10 Dichlorodifluoromethane | 85 | 1.332 | 1.325 | 0.007 | 87 | 458380 | 50.0 | 50.0 | |
| 12 Chloromethane | 50 | 1.441 | 1.435 | 0.006 | 88 | 640091 | 50.0 | 47.1 | |
| 13 Vinyl chloride | 62 | 1.551 | 1.539 | 0.012 | 83 | 597066 | 50.0 | 46.6 | |
| 144 Butadiene | 54 | 1.557 | 1.551 | 0.006 | 93 | 596433 | 50.0 | 46.7 | |
| 14 Bromomethane | 94 | 1.807 | 1.801 | 0.006 | 91 | 314124 | 50.0 | 48.6 | |
| 15 Chloroethane | 64 | 1.899 | 1.899 | 0.001 | 95 | 344695 | 50.0 | 48.9 | |
| 17 Trichlorofluoromethane | 101 | 2.124 | 2.112 | 0.012 | 83 | 568439 | 50.0 | 56.1 | |
| 16 Dichlorofluoromethane | 67 | 2.088 | 2.081 | 0.007 | 83 | 793861 | 50.0 | 49.6 | |
| 18 Ethyl ether | 59 | 2.313 | 2.307 | 0.006 | 94 | 476321 | 50.0 | 50.2 | |
| 20 Acrolein | 56 | 2.453 | 2.453 | 0.000 | 91 | 308680 | 250.0 | 271.0 | |
| 22 1,1-Dichloroethene | 96 | 2.502 | 2.496 | 0.006 | 86 | 468095 | 50.0 | 49.8 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.551 | 2.545 | 0.006 | 88 | 488252 | 50.0 | 50.0 | |
| 23 Acetone | 43 | 2.594 | 2.593 | 0.001 | 96 | 547613 | 250.0 | 198.5 | |
| 25 Iodomethane | 142 | 2.636 | 2.630 | 0.006 | 99 | 799364 | 50.0 | 49.8 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 100 | 1646136 | 50.0 | 49.7 | |
| 28 3-Chloro-1-propene | 41 | 2.825 | 2.819 | 0.006 | 84 | 915210 | 50.0 | 49.5 | |
| 27 Methyl acetate | 43 | 2.862 | 2.862 | 0.000 | 96 | 2039523 | 250.0 | 234.7 | |
| 30 Methylene Chloride | 84 | 2.941 | 2.941 | 0.000 | 94 | 494547 | 50.0 | 48.0 | |
| 31 2-Methyl-2-propanol | 59 | 3.087 | 3.087 | 0.000 | 99 | 218032 | 500.0 | 402.9 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.148 | 3.148 | 0.000 | 92 | 495926 | 50.0 | 50.0 | |
| 32 Methyl tert-butyl ether | 73 | 3.142 | 3.142 | 0.000 | 90 | 1618277 | 50.0 | 50.9 | |
| 33 Acrylonitrile | 53 | 3.179 | 3.173 | 0.006 | 98 | 1937802 | 500.0 | 435.9 | |
| 35 Hexane | 57 | 3.337 | 3.331 | 0.006 | 93 | 858037 | 50.0 | 48.9 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 85 | 993941 | 50.0 | 49.4 | |
| 37 Vinyl acetate | 43 | 3.545 | 3.545 | 0.000 | 97 | 2341434 | 100.0 | 97.1 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 90 | 478032 | 50.0 | 48.5 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 73 | 533524 | 50.0 | 49.6 | |
| 43 2-Butanone (MEK) | 43 | 3.990 | 3.990 | 0.000 | 94 | 1328924 | 250.0 | 238.7 | |
| 48 Chlorobromomethane | 128 | 4.160 | 4.154 | 0.006 | 94 | 267629 | 50.0 | 49.8 | |
| 49 Tetrahydrofuran | 42 | 4.191 | 4.191 | 0.000 | 90 | 333001 | 100.0 | 90.7 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 82 | 887590 | 50.0 | 49.5 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 92 | 725160 | 50.0 | 50.2 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 94 | 1024130 | 50.0 | 49.1 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 75 | 665455 | 50.0 | 49.9 | |
| 54 1,1-Dichloropropene | 75 | 4.447 | 4.447 | 0.000 | 93 | 662875 | 50.0 | 49.0 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 98 | 1916774 | 50.0 | 49.0 | |
| 53 Isobutyl alcohol | 43 | 4.605 | 4.605 | 0.000 | 92 | 546929 | 1250.0 | 1219.8 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 89 | 700584 | 50.0 | 47.6 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 94 | 989842 | 50.0 | 49.1 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 93 | 491395 | 50.0 | 48.7 | |
| 64 Methylcyclohexane | 83 | 5.209 | 5.209 | 0.000 | 95 | 916377 | 50.0 | 49.7 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 95 | 533403 | 50.0 | 49.3 | |
| 67 Dibromomethane | 93 | 5.392 | 5.386 | 0.006 | 92 | 316540 | 50.0 | 49.3 | |
| 66 1,4-Dioxane | 88 | 5.404 | 5.404 | 0.000 | 95 | 77641 | 1000.0 | 1030.7 | M |
| 68 Dichlorobromomethane | 83 | 5.508 | 5.508 | 0.000 | 93 | 682850 | 50.0 | 49.3 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 91 | 368909 | 50.0 | 48.8 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.837 | 5.831 | 0.006 | 90 | 820283 | 50.0 | 46.0 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.940 | 5.940 | 0.000 | 98 | 3142650 | 250.0 | 246.6 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 97 | 1142285 | 50.0 | 48.9 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.264 | 6.264 | 0.000 | 93 | 718792 | 50.0 | 47.0 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 89 | 678964 | 50.0 | 50.0 | |
| 79 1,1,2-Trichloroethane | 83 | 6.416 | 6.416 | 0.000 | 88 | 363206 | 50.0 | 49.1 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 91 | 498722 | 50.0 | 49.1 | |
| 82 1,3-Dichloropropane | 76 | 6.538 | 6.538 | 0.000 | 93 | 756764 | 50.0 | 48.8 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 97 | 2080827 | 250.0 | 238.5 | |
| 83 Chlorodibromomethane | 129 | 6.727 | 6.721 | 0.006 | 89 | 508847 | 49.0 | 50.0 | |
| 84 Ethylene Dibromide | 107 | 6.812 | 6.812 | 0.000 | 98 | 464761 | 50.0 | 49.6 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 93 | 1295709 | 50.0 | 49.4 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 40 | 475428 | 50.0 | 50.8 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 99 | 2184549 | 50.0 | 49.5 | |
| 90 m-Xylene & p-Xylene | 106 | 7.337 | 7.336 | 0.001 | 0 | 854697 | 50.0 | 50.0 | |
| 91 o-Xylene | 106 | 7.660 | 7.660 | 0.000 | 98 | 849618 | 50.0 | 50.0 | |
| 92 Styrene | 104 | 7.678 | 7.678 | 0.000 | 94 | 1445235 | 50.0 | 50.1 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 96 | 350309 | 50.0 | 52.1 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 96 | 2251373 | 50.0 | 50.8 | |
| 101 Bromobenzene | 156 | 8.227 | 8.227 | 0.000 | 96 | 535837 | 50.0 | 50.9 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 88 | 640375 | 50.0 | 50.4 | |
| 100 1,2,3-Trichloropropane | 110 | 8.275 | 8.275 | 0.000 | 81 | 186945 | 50.0 | 49.9 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.281 | 0.000 | 65 | 187908 | 50.0 | 48.8 | |
| 99 N-Propylbenzene | 91 | 8.288 | 8.288 | 0.000 | 98 | 2600245 | 50.0 | 50.3 | |
| 103 2-Chlorotoluene | 126 | 8.379 | 8.373 | 0.006 | 96 | 502319 | 50.0 | 50.6 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.428 | 8.428 | 0.000 | 72 | 1848759 | 50.0 | 50.8 | |
| 105 4-Chlorotoluene | 126 | 8.464 | 8.464 | 0.000 | 98 | 511750 | 50.0 | 49.8 | |
| 106 tert-Butylbenzene | 134 | 8.696 | 8.696 | 0.000 | 93 | 387252 | 50.0 | 50.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.745 | 8.745 | 0.000 | 97 | 1886589 | 50.0 | 50.4 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 95 | 2362030 | 50.0 | 50.8 | |
| 110 4-Isopropyltoluene | 119 | 8.995 | 8.995 | 0.000 | 94 | 1970573 | 50.0 | 50.7 | |
| 111 1,3-Dichlorobenzene | 146 | 9.001 | 9.001 | 0.000 | 71 | 980271 | 50.0 | 49.3 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 93 | 990691 | 50.0 | 49.7 | |
| 115 n-Butylbenzene | 91 | 9.342 | 9.336 | 0.006 | 98 | 1848468 | 50.0 | 51.1 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 95 | 970401 | 50.0 | 50.1 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.062 | 10.055 | 0.007 | 83 | 134559 | 50.0 | 51.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 90 | 717822 | 50.0 | 52.0 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 95 | 365870 | 50.0 | 56.1 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 98 | 1920172 | 50.0 | 52.2 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.141 | 11.141 | 0.000 | 94 | 655517 | 50.0 | 51.6 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 247.5 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 100.0 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 99.6 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 93.0 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1214.D

Injection Date: 22-Apr-2014 07:04:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC 5

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

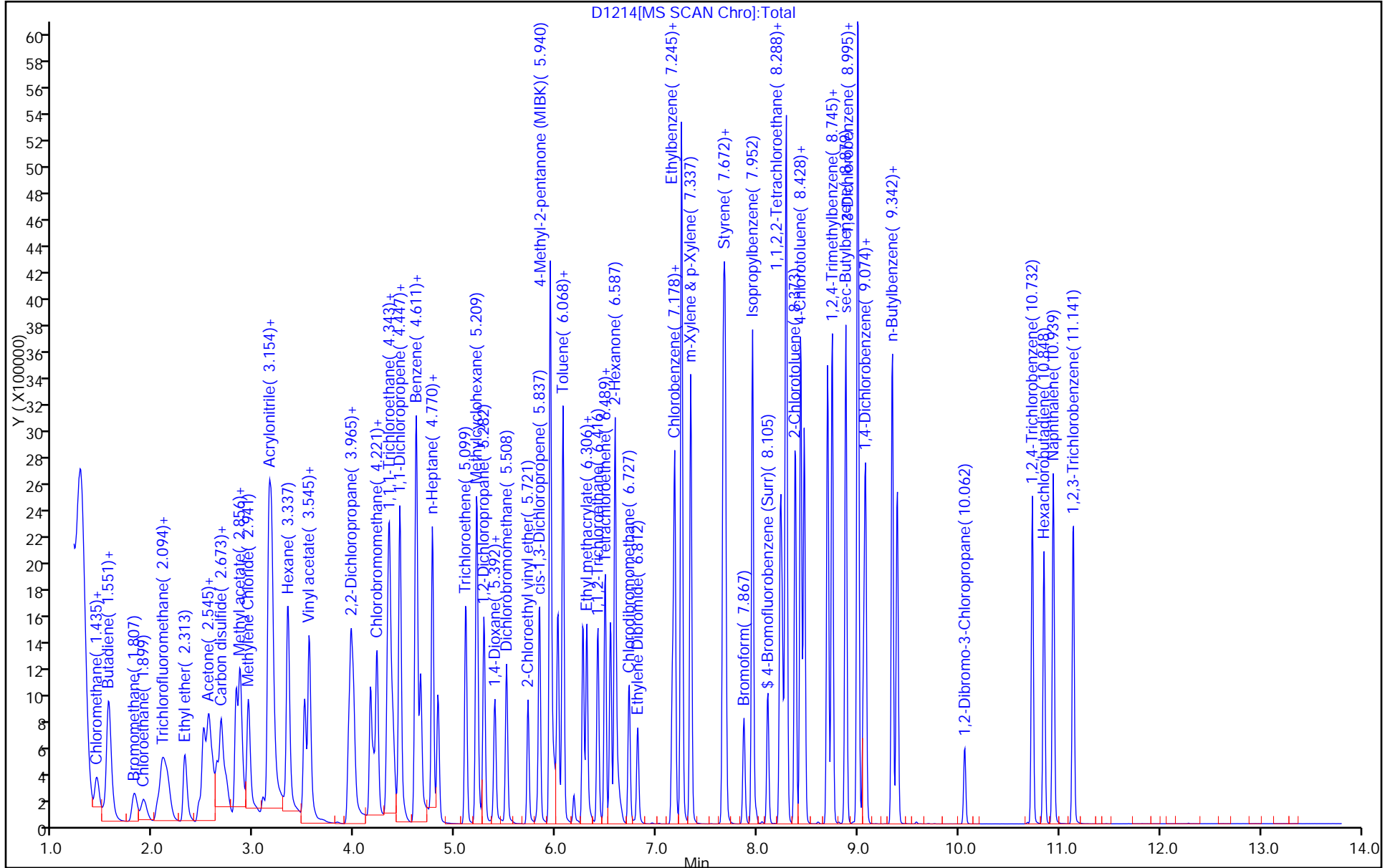
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



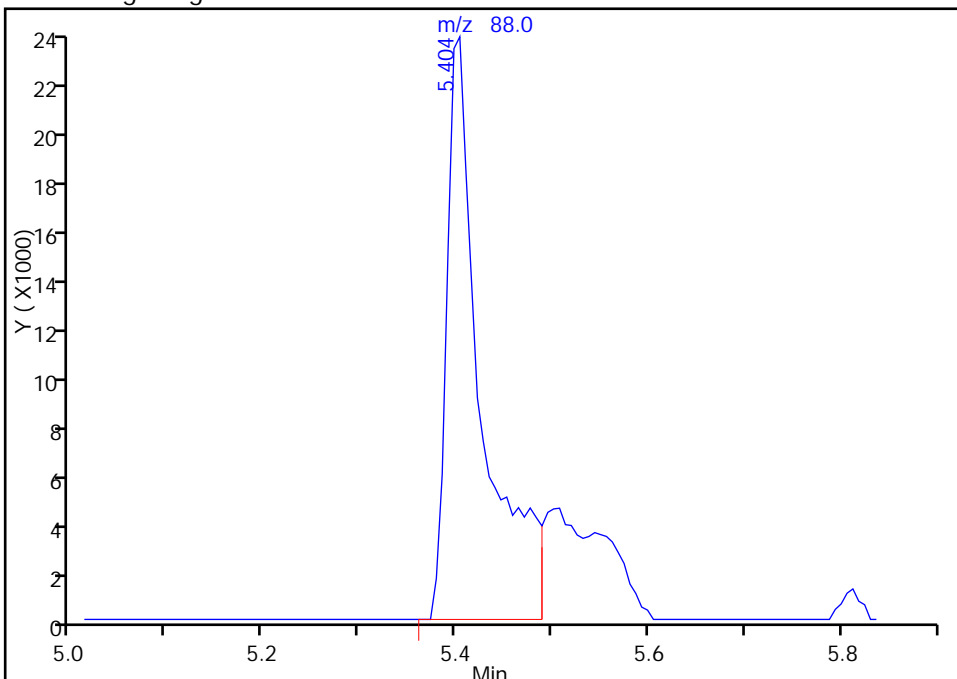
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1214.D
Injection Date: 22-Apr-2014 07:04:30 Instrument ID: HP5975D
Lims ID: IC 5
Client ID:
Operator ID: CDC ALS Bottle#: 7 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

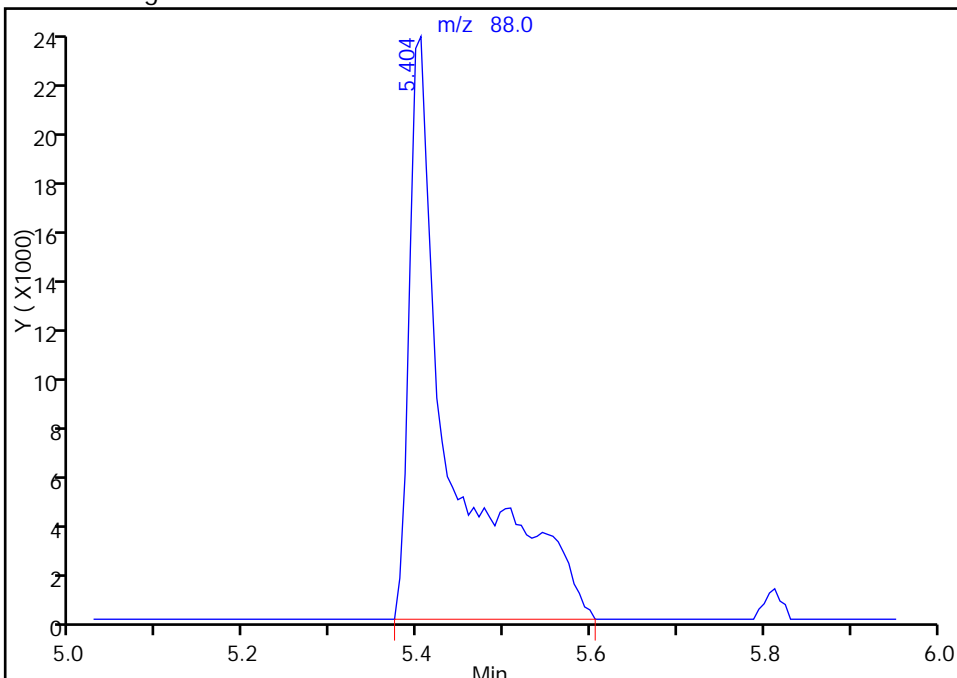
RT: 5.40
Response: 58708
Amount: 916.8326

Processing Integration Results



RT: 5.40
Response: 77641
Amount: 1030.7365

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 11:33:44
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1215.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 22-Apr-2014 07:25:30 ALS Bottle#: 8 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0031313-010
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 23-Apr-2014 00:45:02 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK037

First Level Reviewer: cwiklinc

Date: 23-Apr-2014 00:45:02

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.825 | 4.825 | 0.000 | 92 | 168945 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.154 | 7.154 | 0.000 | 87 | 319632 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.056 | 9.056 | 0.000 | 95 | 265897 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.343 | 4.343 | 0.000 | 71 | 232610 | 25.0 | 23.1 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.599 | 4.593 | 0.006 | 0 | 156999 | 25.0 | 23.8 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.020 | 6.014 | 0.006 | 91 | 888917 | 25.0 | 24.9 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.105 | 8.105 | 0.000 | 88 | 268753 | 25.0 | 25.3 | |
| 10 Dichlorodifluoromethane | 85 | 1.332 | 1.325 | 0.007 | 87 | 907834 | 100.0 | 91.4 | |
| 12 Chloromethane | 50 | 1.441 | 1.435 | 0.006 | 89 | 1229847 | 100.0 | 83.5 | |
| 13 Vinyl chloride | 62 | 1.551 | 1.539 | 0.012 | 80 | 1169031 | 100.0 | 84.2 | |
| 144 Butadiene | 54 | 1.557 | 1.551 | 0.006 | 92 | 1165407 | 100.0 | 84.1 | |
| 14 Bromomethane | 94 | 1.813 | 1.801 | 0.012 | 91 | 619547 | 100.0 | 88.4 | |
| 15 Chloroethane | 64 | 1.911 | 1.899 | 0.013 | 95 | 682720 | 100.0 | 89.5 | |
| 16 Dichlorofluoromethane | 67 | 2.088 | 2.081 | 0.007 | 83 | 1508593 | 100.0 | 86.9 | |
| 17 Trichlorofluoromethane | 101 | 2.130 | 2.112 | 0.018 | 86 | 1158080 | 100.0 | 105.5 | |
| 18 Ethyl ether | 59 | 2.307 | 2.307 | 0.000 | 95 | 945583 | 100.0 | 91.9 | |
| 20 Acrolein | 56 | 2.453 | 2.453 | 0.000 | 94 | 652389 | 500.0 | 528.5 | |
| 22 1,1-Dichloroethene | 96 | 2.496 | 2.496 | 0.000 | 86 | 908533 | 100.0 | 89.2 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.551 | 2.545 | 0.006 | 87 | 981002 | 100.0 | 92.6 | |
| 23 Acetone | 43 | 2.594 | 2.593 | 0.001 | 99 | 1325887 | 500.0 | 443.5 | |
| 25 Iodomethane | 142 | 2.630 | 2.630 | 0.000 | 99 | 1530338 | 100.0 | 88.1 | |
| 26 Carbon disulfide | 76 | 2.673 | 2.673 | 0.000 | 100 | 3138933 | 100.0 | 87.5 | |
| 28 3-Chloro-1-propene | 41 | 2.819 | 2.819 | 0.000 | 84 | 1791502 | 100.0 | 89.4 | |
| 27 Methyl acetate | 43 | 2.856 | 2.862 | -0.006 | 96 | 4913667 | 500.0 | 521.9 | |
| 30 Methylene Chloride | 84 | 2.941 | 2.941 | 0.000 | 94 | 1003559 | 100.0 | 89.9 | |
| 31 2-Methyl-2-propanol | 59 | 3.087 | 3.087 | 0.000 | 99 | 521052 | 1000.0 | 888.6 | M |
| 32 Methyl tert-butyl ether | 73 | 3.142 | 3.142 | 0.000 | 90 | 3107060 | 100.0 | 90.1 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.148 | 3.148 | 0.000 | 93 | 957897 | 100.0 | 89.1 | |
| 33 Acrylonitrile | 53 | 3.179 | 3.173 | 0.006 | 99 | 4181132 | 1000.0 | 868.0 | |
| 35 Hexane | 57 | 3.331 | 3.331 | 0.000 | 93 | 1701900 | 100.0 | 89.6 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.502 | 3.502 | 0.000 | 85 | 1925309 | 100.0 | 88.3 | |
| 37 Vinyl acetate | 43 | 3.545 | 3.545 | 0.000 | 97 | 5015523 | 200.0 | 192.0 | |
| 44 2,2-Dichloropropane | 77 | 3.941 | 3.941 | 0.000 | 89 | 855391 | 100.0 | 80.1 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.965 | 3.965 | 0.000 | 72 | 1047331 | 100.0 | 89.9 | |
| 43 2-Butanone (MEK) | 43 | 3.990 | 3.990 | 0.000 | 98 | 2904903 | 500.0 | 481.5 | |
| 48 Chlorobromomethane | 128 | 4.154 | 4.154 | 0.000 | 93 | 534258 | 100.0 | 91.7 | |
| 49 Tetrahydrofuran | 42 | 4.185 | 4.191 | -0.006 | 90 | 733659 | 200.0 | 184.3 | |
| 50 Chloroform | 83 | 4.221 | 4.221 | 0.000 | 82 | 1727462 | 100.0 | 88.9 | |
| 51 1,1,1-Trichloroethane | 97 | 4.325 | 4.325 | 0.000 | 94 | 1389106 | 100.0 | 88.7 | |
| 52 Cyclohexane | 56 | 4.343 | 4.343 | 0.000 | 94 | 2001980 | 100.0 | 88.6 | |
| 55 Carbon tetrachloride | 117 | 4.441 | 4.441 | 0.000 | 80 | 1314262 | 100.0 | 90.9 | |
| 54 1,1-Dichloropropene | 75 | 4.447 | 4.447 | 0.000 | 94 | 1313931 | 100.0 | 89.7 | |
| 53 Isobutyl alcohol | 43 | 4.605 | 4.605 | 0.000 | 94 | 1208353 | 2500.0 | 2487.3 | |
| 57 Benzene | 78 | 4.611 | 4.611 | 0.000 | 98 | 3839816 | 100.0 | 90.7 | |
| 58 1,2-Dichloroethane | 62 | 4.654 | 4.654 | 0.000 | 89 | 1462512 | 100.0 | 91.6 | |
| 59 n-Heptane | 43 | 4.770 | 4.770 | 0.000 | 94 | 2047890 | 100.0 | 93.7 | |
| 62 Trichloroethene | 95 | 5.099 | 5.099 | 0.000 | 93 | 1000093 | 100.0 | 91.5 | |
| 64 Methylcyclohexane | 83 | 5.215 | 5.209 | 0.006 | 95 | 1814791 | 100.0 | 90.9 | |
| 65 1,2-Dichloropropane | 63 | 5.282 | 5.282 | 0.000 | 94 | 1110031 | 100.0 | 94.7 | |
| 67 Dibromomethane | 93 | 5.392 | 5.386 | 0.006 | 93 | 650613 | 100.0 | 93.5 | |
| 66 1,4-Dioxane | 88 | 5.398 | 5.404 | -0.006 | 95 | 154903 | 2000.0 | 1920.5 | M |
| 68 Dichlorobromomethane | 83 | 5.508 | 5.508 | 0.000 | 93 | 1413737 | 100.0 | 94.2 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.721 | 5.721 | 0.000 | 90 | 832430 | 100.0 | 101.5 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.837 | 5.831 | 0.006 | 90 | 1744911 | 100.0 | 90.3 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.940 | 5.940 | 0.000 | 97 | 6658761 | 500.0 | 490.4 | |
| 74 Toluene | 92 | 6.068 | 6.068 | 0.000 | 97 | 2374063 | 100.0 | 95.5 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.270 | 6.264 | 0.006 | 91 | 1551135 | 100.0 | 95.2 | |
| 75 Ethyl methacrylate | 69 | 6.306 | 6.306 | 0.000 | 88 | 1488862 | 100.0 | 102.8 | |
| 79 1,1,2-Trichloroethane | 83 | 6.416 | 6.416 | 0.000 | 88 | 773547 | 100.0 | 98.1 | |
| 81 Tetrachloroethene | 166 | 6.489 | 6.489 | 0.000 | 92 | 1024788 | 100.0 | 94.7 | |
| 82 1,3-Dichloropropane | 76 | 6.544 | 6.538 | 0.006 | 93 | 1628339 | 100.0 | 98.6 | |
| 80 2-Hexanone | 43 | 6.587 | 6.587 | 0.000 | 97 | 4615423 | 500.0 | 496.5 | |
| 83 Chlorodibromomethane | 129 | 6.727 | 6.721 | 0.006 | 89 | 1079568 | 98.0 | 99.5 | |
| 84 Ethylene Dibromide | 107 | 6.812 | 6.812 | 0.000 | 99 | 989173 | 100.0 | 99.1 | |
| 87 Chlorobenzene | 112 | 7.178 | 7.178 | 0.000 | 93 | 2678680 | 100.0 | 95.9 | |
| 88 Ethylbenzene | 91 | 7.245 | 7.245 | 0.000 | 99 | 4489153 | 100.0 | 95.5 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.245 | 7.245 | 0.000 | 40 | 953672 | 100.0 | 95.6 | |
| 90 m-Xylene & p-Xylene | 106 | 7.337 | 7.336 | 0.001 | 0 | 1751372 | 100.0 | 96.1 | |
| 91 o-Xylene | 106 | 7.666 | 7.660 | 0.006 | 95 | 1703457 | 100.0 | 94.2 | |
| 92 Styrene | 104 | 7.684 | 7.678 | 0.006 | 96 | 2989169 | 100.0 | 97.3 | |
| 95 Bromoform | 173 | 7.867 | 7.867 | 0.000 | 96 | 753327 | 100.0 | 105.2 | |
| 94 Isopropylbenzene | 105 | 7.952 | 7.952 | 0.000 | 96 | 4476317 | 100.0 | 96.7 | |
| 101 Bromobenzene | 156 | 8.227 | 8.227 | 0.000 | 97 | 1101326 | 100.0 | 100.1 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.245 | 8.245 | 0.000 | 88 | 1325230 | 100.0 | 100.0 | |
| 100 1,2,3-Trichloropropane | 110 | 8.281 | 8.275 | 0.006 | 80 | 387611 | 100.0 | 99.0 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.281 | 0.000 | 67 | 429004 | 100.0 | 105.6 | |
| 99 N-Propylbenzene | 91 | 8.288 | 8.288 | 0.000 | 98 | 5155710 | 100.0 | 95.5 | |
| 103 2-Chlorotoluene | 126 | 8.379 | 8.373 | 0.006 | 96 | 995563 | 100.0 | 96.1 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.434 | 8.428 | 0.006 | 67 | 3568145 | 100.0 | 93.9 | |
| 105 4-Chlorotoluene | 126 | 8.470 | 8.464 | 0.006 | 97 | 1038402 | 100.0 | 96.8 | |
| 106 tert-Butylbenzene | 134 | 8.702 | 8.696 | 0.006 | 93 | 761043 | 100.0 | 95.8 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.745 | 8.745 | 0.000 | 97 | 3681390 | 100.0 | 94.2 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.879 | 8.879 | 0.000 | 95 | 4476378 | 100.0 | 92.3 | |
| 110 4-Isopropyltoluene | 119 | 9.001 | 8.995 | 0.006 | 94 | 3661930 | 100.0 | 90.3 | |
| 111 1,3-Dichlorobenzene | 146 | 9.001 | 9.001 | 0.000 | 72 | 1987372 | 100.0 | 95.8 | |
| 113 1,4-Dichlorobenzene | 146 | 9.074 | 9.074 | 0.000 | 93 | 2019278 | 100.0 | 97.0 | |
| 115 n-Butylbenzene | 91 | 9.342 | 9.336 | 0.006 | 98 | 3368934 | 100.0 | 89.2 | |
| 116 1,2-Dichlorobenzene | 146 | 9.391 | 9.391 | 0.000 | 96 | 1927221 | 100.0 | 95.2 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.062 | 10.055 | 0.007 | 83 | 279774 | 100.0 | 103.0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.732 | 10.732 | 0.000 | 93 | 1366703 | 100.0 | 94.8 | |
| 120 Hexachlorobutadiene | 225 | 10.848 | 10.848 | 0.000 | 96 | 617140 | 100.0 | 90.9 | |
| 121 Naphthalene | 128 | 10.939 | 10.939 | 0.000 | 97 | 3877235 | 100.0 | 100.9 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.141 | 11.141 | 0.000 | 93 | 1292237 | 100.0 | 97.4 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 179.0 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 185.5 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 471.9 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 190.3 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1215.D

Injection Date: 22-Apr-2014 07:25:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: IC 6

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

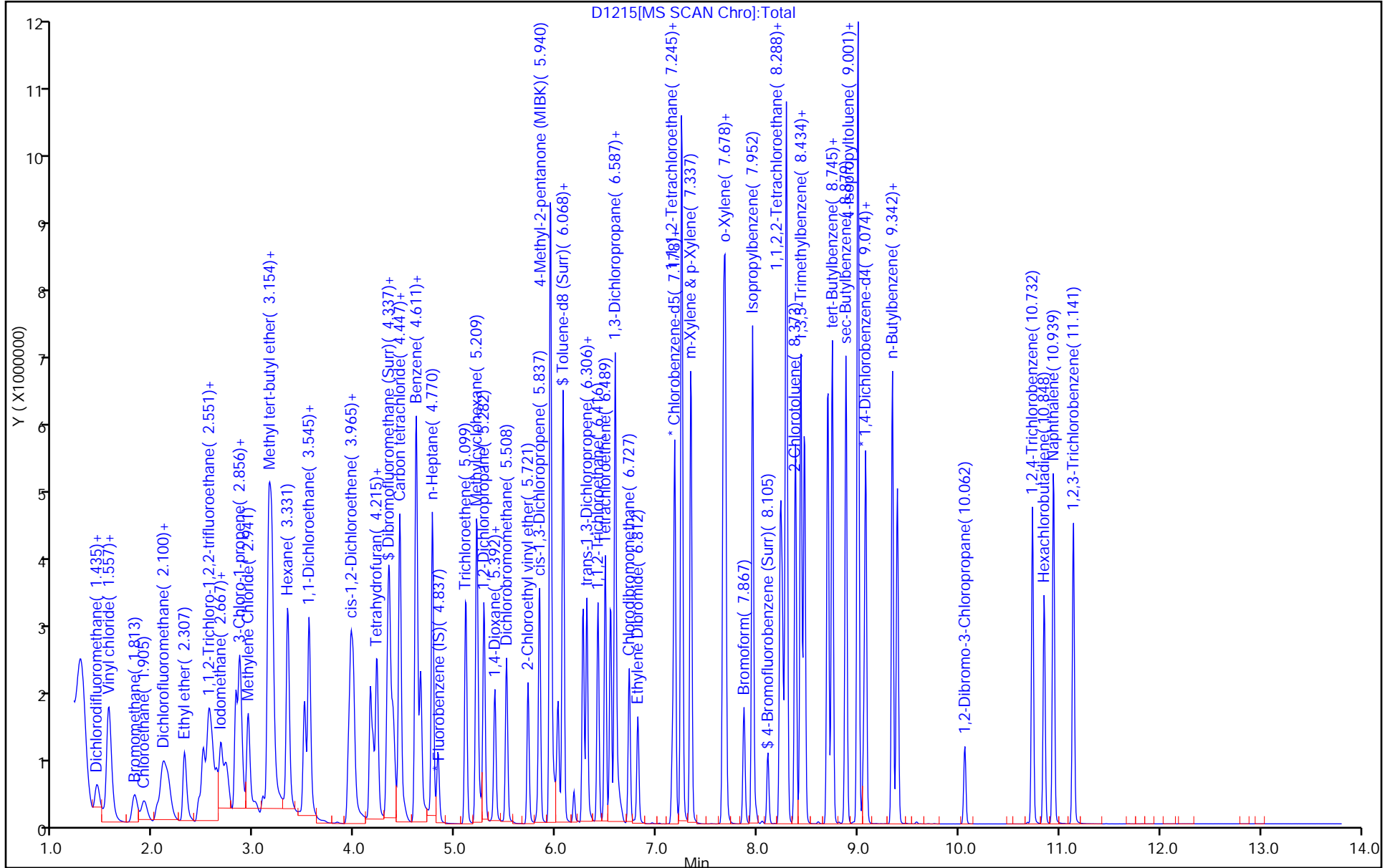
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



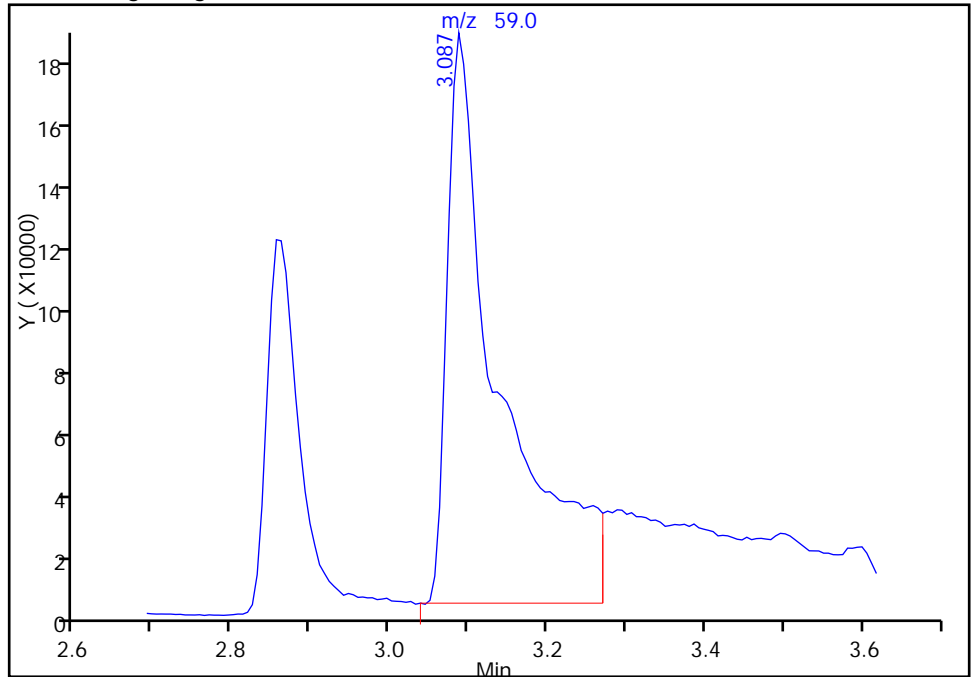
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1215.D
Injection Date: 22-Apr-2014 07:25:30 Instrument ID: HP5975D
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

31 2-Methyl-2-propanol, CAS: 75-65-0

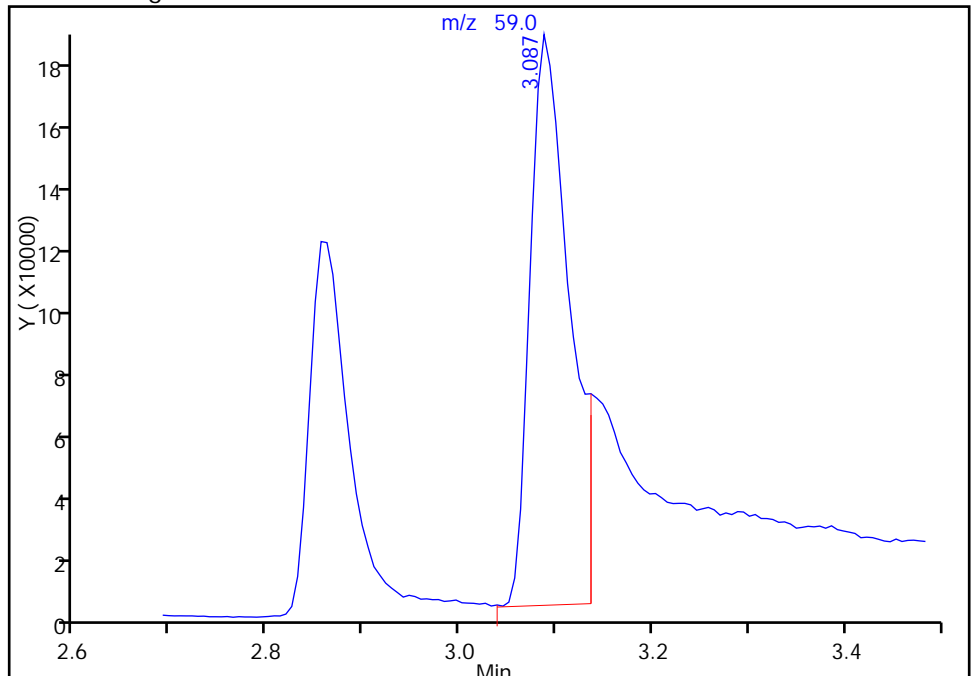
RT: 3.09
Response: 837472
Amount: 1003.9922

Processing Integration Results



RT: 3.09
Response: 521052
Amount: 888.6351

Manual Integration Results



Reviewer: BrandtT, 22-Apr-2014 17:51:06
Audit Action: Manually Integrated
Audit Reason: Coelution

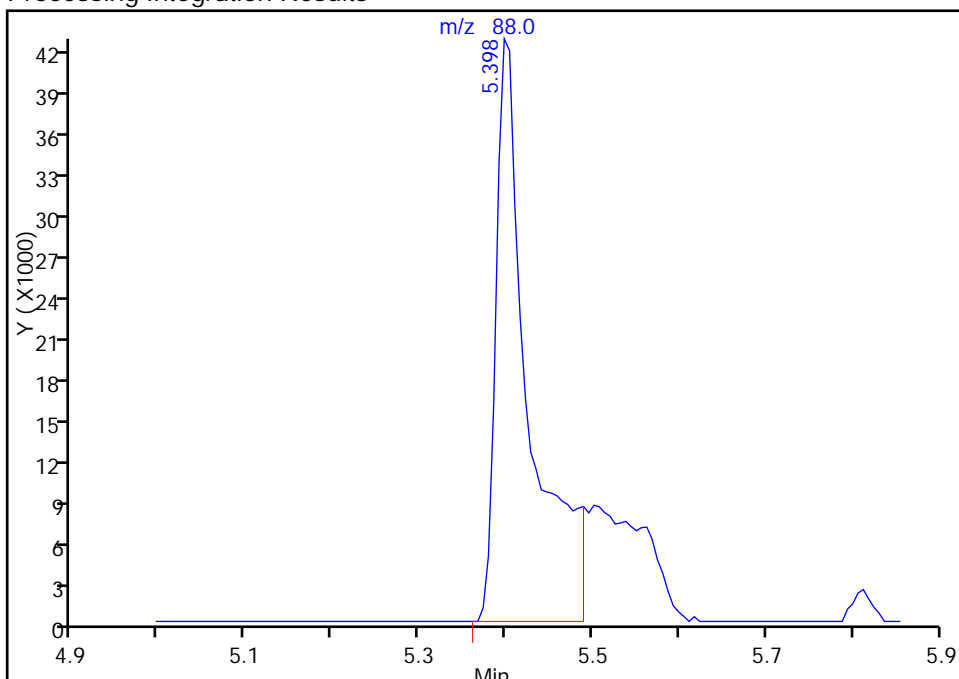
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1215.D
Injection Date: 22-Apr-2014 07:25:30 Instrument ID: HP5975D
Lims ID: IC 6
Client ID:
Operator ID: CDC ALS Bottle#: 8 Worklist Smp#: 10
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

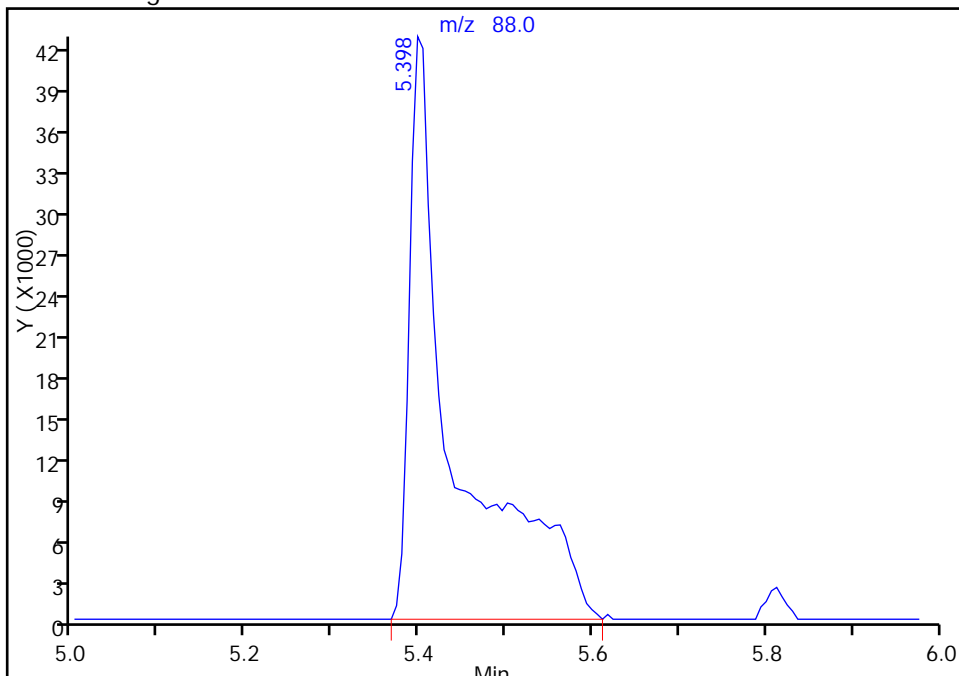
RT: 5.40
Response: 115053
Amount: 1967.6870

Processing Integration Results



RT: 5.40
Response: 154903
Amount: 1920.4877

Manual Integration Results



Reviewer: quirkp, 22-Apr-2014 12:47:33
Audit Action: Manually Integrated
Audit Reason: Peak Tail

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-179534/2 Calibration Date: 05/01/2014 20:06
 Instrument ID: HP5975D Calib Start Date: 04/22/2014 05:18
 GC Column: RTX-CLPII ID: 0.53 (mm) Calib End Date: 04/22/2014 07:25
 Lab File ID: D1598.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Dichlorodifluoromethane | Ave | 1.470 | 1.739 | 0.1000 | 29.6 | 25.0 | 18.3 | 20.0 |
| Chloromethane | Ave | 2.180 | 2.179 | 0.1000 | 25.0 | 25.0 | -0.0 | 20.0 |
| Vinyl chloride | Ave | 2.055 | 1.989 | 0.1000 | 24.2 | 25.0 | -3.2 | 20.0 |
| Butadiene | Ave | 2.050 | 2.331 | | 28.4 | 25.0 | 13.7 | 20.0 |
| Bromomethane | Ave | 1.037 | 1.021 | 0.1000 | 24.6 | 25.0 | -1.5 | 20.0 |
| Chloroethane | Ave | 1.129 | 1.113 | 0.1000 | 24.7 | 25.0 | -1.4 | 20.0 |
| Dichlorofluoromethane | Ave | 2.568 | 2.337 | | 22.7 | 25.0 | -9.0 | 20.0 |
| Trichlorofluoromethane | Ave | 1.625 | 1.495 | 0.1000 | 23.0 | 25.0 | -8.0 | 20.0 |
| Ethyl ether | Ave | 1.522 | 1.481 | | 24.3 | 25.0 | -2.7 | 20.0 |
| Acrolein | Ave | 0.1827 | 0.1968 | | 135 | 125 | 7.7 | 20.0 |
| 1,1-Dichloroethene | Ave | 1.507 | 1.418 | 0.1000 | 23.5 | 25.0 | -5.9 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave | 1.567 | 1.499 | 0.1000 | 23.9 | 25.0 | -4.3 | 20.0 |
| Acetone | Ave | 0.4424 | 0.5796 | 0.1000 | 164 | 125 | 31.0* | 20.0 |
| Iodomethane | Ave | 2.571 | 2.431 | | 23.6 | 25.0 | -5.4 | 20.0 |
| Carbon disulfide | Ave | 5.307 | 4.724 | 0.1000 | 22.3 | 25.0 | -11.0 | 20.0 |
| Allyl chloride | Ave | 2.966 | 2.636 | | 22.2 | 25.0 | -11.1 | 20.0 |
| Methyl acetate | Ave | 1.393 | 1.605 | 0.1000 | 144 | 125 | 15.2 | 20.0 |
| Methylene Chloride | Ave | 1.653 | 1.588 | 0.1000 | 24.0 | 25.0 | -3.9 | 20.0 |
| 2-Methyl-2-propanol | Ave | 0.0868 | 0.1742 | | 502 | 250 | 100.7* | 20.0 |
| Methyl tert-butyl ether | Ave | 5.102 | 4.952 | 0.1000 | 24.3 | 25.0 | -2.9 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 1.591 | 1.529 | 0.1000 | 24.0 | 25.0 | -3.9 | 20.0 |
| Acrylonitrile | Ave | 0.7128 | 0.7228 | | 253 | 250 | 1.4 | 20.0 |
| Hexane | Ave | 2.811 | 2.664 | | 23.7 | 25.0 | -5.2 | 20.0 |
| 1,1-Dichloroethane | Ave | 3.227 | 3.039 | 0.2000 | 23.5 | 25.0 | -5.8 | 20.0 |
| Vinyl acetate | Ave | 3.866 | 3.183 | | 41.2 | 50.0 | -17.7 | 20.0 |
| 2,2-Dichloropropane | Ave | 1.581 | 1.434 | | 22.7 | 25.0 | -9.3 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 1.725 | 1.681 | 0.1000 | 24.4 | 25.0 | -2.5 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.8928 | 0.995 | 0.1000 | 139 | 125 | 11.5 | 20.0 |
| Chlorobromomethane | Ave | 0.8622 | 0.8493 | | 24.6 | 25.0 | -1.5 | 20.0 |
| Tetrahydrofuran | Ave | 0.5890 | 0.6288 | | 53.4 | 50.0 | 6.8 | 20.0 |
| Chloroform | Ave | 2.875 | 2.781 | 0.2000 | 24.2 | 25.0 | -3.3 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 2.318 | 2.234 | 0.1000 | 24.1 | 25.0 | -3.6 | 20.0 |
| Cyclohexane | Ave | 3.345 | 3.109 | 0.1000 | 23.2 | 25.0 | -7.0 | 20.0 |
| Carbon tetrachloride | Ave | 2.140 | 2.012 | 0.1000 | 23.5 | 25.0 | -6.0 | 20.0 |
| 1,1-Dichloropropene | Ave | 2.167 | 2.100 | | 24.2 | 25.0 | -3.1 | 20.0 |
| Isobutyl alcohol | Ave | 0.0719 | 0.0944 | | 821 | 625 | 31.3* | 20.0 |
| Benzene | Ave | 6.267 | 6.141 | 0.5000 | 24.5 | 25.0 | -2.0 | 20.0 |
| 1,2-Dichloroethane | Ave | 2.362 | 2.405 | 0.1000 | 25.5 | 25.0 | 1.8 | 20.0 |
| n-Heptane | Ave | 3.233 | 3.156 | | 24.4 | 25.0 | -2.4 | 20.0 |
| Trichloroethene | Ave | 1.617 | 1.604 | 0.2000 | 24.8 | 25.0 | -0.8 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-179534/2 Calibration Date: 05/01/2014 20:06
 Instrument ID: HP5975D Calib Start Date: 04/22/2014 05:18
 GC Column: RTX-CLPII ID: 0.53 (mm) Calib End Date: 04/22/2014 07:25
 Lab File ID: D1598.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|--------|--------|
| Methylcyclohexane | Ave | 2.954 | 2.819 | 0.1000 | 23.9 | 25.0 | -4.6 | 20.0 |
| 1,2-Dichloropropane | Ave | 1.734 | 1.723 | 0.1000 | 24.8 | 25.0 | -0.6 | 20.0 |
| Dibromomethane | Ave | 1.030 | 1.021 | 0.1000 | 24.8 | 25.0 | -0.9 | 20.0 |
| 1,4-Dioxane | Lin1 | | 0.0076 | | 612 | 500 | 22.4* | 20.0 |
| Bromodichloromethane | Ave | 2.220 | 2.220 | 0.2000 | 25.0 | 25.0 | 0.0 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 1.213 | 1.216 | | 25.1 | 25.0 | 0.2 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 2.858 | 2.573 | 0.2000 | 22.5 | 25.0 | -10.0 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 1.062 | 1.043 | 0.1000 | 123 | 125 | -1.8 | 20.0 |
| Toluene | Ave | 1.945 | 1.871 | 0.4000 | 24.0 | 25.0 | -3.8 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 1.274 | 1.094 | 0.1000 | 21.5 | 25.0 | -14.1 | 20.0 |
| Ethyl methacrylate | Ave | 1.132 | 1.166 | | 25.7 | 25.0 | 3.0 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.6170 | 0.6070 | 0.1000 | 24.6 | 25.0 | -1.6 | 20.0 |
| Tetrachloroethene | Ave | 0.8461 | 0.8211 | 0.2000 | 24.3 | 25.0 | -3.0 | 20.0 |
| 1,3-Dichloropropane | Ave | 1.291 | 1.262 | | 24.4 | 25.0 | -2.3 | 20.0 |
| 2-Hexanone | Ave | 0.7270 | 0.7598 | 0.1000 | 131 | 125 | 4.5 | 20.0 |
| Dibromochloromethane | Ave | 0.8488 | 0.8228 | 0.1000 | 23.7 | 24.5 | -3.1 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.7806 | 0.7734 | | 24.8 | 25.0 | -0.9 | 20.0 |
| Chlorobenzene | Ave | 2.185 | 2.128 | 0.5000 | 24.3 | 25.0 | -2.6 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.7802 | 0.7582 | | 24.3 | 25.0 | -2.8 | 20.0 |
| Ethylbenzene | Ave | 3.677 | 3.614 | 0.1000 | 24.6 | 25.0 | -1.7 | 20.0 |
| m,p-Xylene | Ave | 1.425 | 1.394 | 0.1000 | 24.5 | 25.0 | -2.2 | 20.0 |
| o-Xylene | Ave | 1.415 | 1.375 | 0.3000 | 24.3 | 25.0 | -2.8 | 20.0 |
| Styrene | Ave | 2.404 | 2.406 | | 25.0 | 25.0 | 0.1 | 20.0 |
| Bromoform | Ave | 0.5601 | 0.5252 | 0.1000 | 23.4 | 25.0 | -6.2 | 20.0 |
| Isopropylbenzene | Ave | 4.353 | 4.131 | 0.1000 | 23.7 | 25.0 | -5.1 | 20.0 |
| Bromobenzene | Ave | 1.034 | 0.9925 | | 24.0 | 25.0 | -4.0 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 1.247 | 1.173 | 0.3000 | 23.5 | 25.0 | -5.9 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.3681 | 0.3487 | | 23.7 | 25.0 | -5.3 | 20.0 |
| trans-1,4-Dichloro-2-butene | Lin1 | | 0.1282 | | 9.26 | 25.0 | -63.0* | 20.0 |
| N-Propylbenzene | Ave | 5.073 | 4.833 | | 23.8 | 25.0 | -4.7 | 20.0 |
| 2-Chlorotoluene | Ave | 0.9743 | 0.9366 | | 24.0 | 25.0 | -3.9 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 3.573 | 3.472 | | 24.3 | 25.0 | -2.8 | 20.0 |
| 4-Chlorotoluene | Ave | 1.009 | 0.9699 | | 24.0 | 25.0 | -3.9 | 20.0 |
| tert-Butylbenzene | Ave | 0.7470 | 0.7415 | | 24.8 | 25.0 | -0.7 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 3.675 | 3.559 | | 24.2 | 25.0 | -3.2 | 20.0 |
| sec-Butylbenzene | Ave | 4.560 | 4.503 | | 24.7 | 25.0 | -1.3 | 20.0 |
| 4-Isopropyltoluene | Ave | 3.813 | 3.797 | | 24.9 | 25.0 | -0.4 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.950 | 1.896 | 0.6000 | 24.3 | 25.0 | -2.8 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.957 | 1.907 | 0.5000 | 24.4 | 25.0 | -2.6 | 20.0 |
| n-Butylbenzene | Ave | 3.550 | 3.574 | | 25.2 | 25.0 | 0.7 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.903 | 1.855 | 0.4000 | 24.4 | 25.0 | -2.5 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-179534/2 Calibration Date: 05/01/2014 20:06
 Instrument ID: HP5975D Calib Start Date: 04/22/2014 05:18
 GC Column: RTX-CLPII ID: 0.53 (mm) Calib End Date: 04/22/2014 07:25
 Lab File ID: D1598.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| 1,2-Dibromo-3-Chloropropane | Ave | 0.2554 | 0.2353 | 0.0500 | 23.0 | 25.0 | -7.9 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 1.355 | 1.353 | 0.2000 | 25.0 | 25.0 | -0.1 | 20.0 |
| Hexachlorobutadiene | Lin1 | | 0.7148 | | 27.8 | 25.0 | 11.1 | 20.0 |
| Naphthalene | Ave | 3.614 | 3.463 | | 24.0 | 25.0 | -4.2 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 1.247 | 1.228 | | 24.6 | 25.0 | -1.5 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 1.490 | 1.328 | | 22.3 | 25.0 | -10.9 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.9768 | 0.8338 | | 21.3 | 25.0 | -14.6 | 20.0 |
| Toluene-d8 (Surr) | Ave | 2.790 | 2.585 | | 23.2 | 25.0 | -7.3 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.8309 | 0.9284 | | 27.9 | 25.0 | 11.7 | 20.0 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1598.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 01-May-2014 20:06:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0031670-002
 Operator ID: CDC Instrument ID: HP5975D
 Sublist: chrom-D-8260*sub13
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 02:17:07 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: cwiklinc

Date: 01-May-2014 20:25:25

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.819 | 4.819 | 0.000 | 97 | 171609 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.147 | 7.147 | 0.000 | 87 | 351145 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 81 | 313760 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.337 | 4.337 | 0.000 | 83 | 227929 | 25.0 | 22.3 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.587 | 4.587 | 0.000 | 0 | 143082 | 25.0 | 21.3 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.007 | 6.007 | 0.000 | 92 | 907879 | 25.0 | 23.2 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 90 | 325998 | 25.0 | 27.9 | |
| 10 Dichlorodifluoromethane | 85 | 1.325 | 1.325 | 0.000 | 87 | 298399 | 25.0 | 29.6 | |
| 12 Chloromethane | 50 | 1.435 | 1.435 | 0.000 | 88 | 373886 | 25.0 | 25.0 | |
| 13 Vinyl chloride | 62 | 1.539 | 1.539 | 0.000 | 83 | 341392 | 25.0 | 24.2 | |
| 144 Butadiene | 54 | 1.551 | 1.551 | 0.000 | 91 | 400000 | 25.0 | 28.4 | |
| 14 Bromomethane | 94 | 1.801 | 1.801 | 0.000 | 90 | 175282 | 25.0 | 24.6 | |
| 15 Chloroethane | 64 | 1.898 | 1.898 | 0.000 | 94 | 191060 | 25.0 | 24.7 | |
| 16 Dichlorofluoromethane | 67 | 2.081 | 2.081 | 0.000 | 83 | 400997 | 25.0 | 22.7 | |
| 17 Trichlorofluoromethane | 101 | 2.118 | 2.118 | 0.000 | 82 | 256581 | 25.0 | 23.0 | |
| 18 Ethyl ether | 59 | 2.301 | 2.301 | 0.000 | 94 | 254208 | 25.0 | 24.3 | |
| 20 Acrolein | 56 | 2.447 | 2.447 | 0.000 | 91 | 168824 | 125.0 | 134.7 | |
| 22 1,1-Dichloroethene | 96 | 2.490 | 2.490 | 0.000 | 85 | 243374 | 25.0 | 23.5 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.545 | 2.545 | 0.000 | 86 | 257318 | 25.0 | 23.9 | |
| 23 Acetone | 43 | 2.587 | 2.587 | 0.000 | 97 | 497305 | 125.0 | 163.8 | |
| 25 Iodomethane | 142 | 2.624 | 2.624 | 0.000 | 98 | 417223 | 25.0 | 23.6 | |
| 26 Carbon disulfide | 76 | 2.667 | 2.667 | 0.000 | 99 | 810682 | 25.0 | 22.3 | |
| 28 3-Chloro-1-propene | 41 | 2.813 | 2.813 | 0.000 | 84 | 452368 | 25.0 | 22.2 | |
| 27 Methyl acetate | 43 | 2.856 | 2.856 | 0.000 | 96 | 1377568 | 125.0 | 144.1 | |
| 30 Methylene Chloride | 84 | 2.935 | 2.935 | 0.000 | 91 | 272556 | 25.0 | 24.0 | |
| 31 2-Methyl-2-propanol | 59 | 3.087 | 3.087 | 0.000 | 100 | 298853 | 250.0 | 501.8 | |
| 32 Methyl tert-butyl ether | 73 | 3.136 | 3.136 | 0.000 | 90 | 849768 | 25.0 | 24.3 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.142 | 3.142 | 0.000 | 92 | 262330 | 25.0 | 24.0 | |
| 33 Acrylonitrile | 53 | 3.166 | 3.166 | 0.000 | 99 | 1240367 | 250.0 | 253.5 | |
| 35 Hexane | 57 | 3.325 | 3.325 | 0.000 | 93 | 457106 | 25.0 | 23.7 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| 39 1,1-Dichloroethane | 63 | 3.490 | 3.490 | 0.000 | 85 | 521510 | 25.0 | 23.5 | |
| 37 Vinyl acetate | 43 | 3.538 | 3.538 | 0.000 | 97 | 1092574 | 50.0 | 41.2 | |
| 44 2,2-Dichloropropane | 77 | 3.935 | 3.935 | 0.000 | 87 | 246053 | 25.0 | 22.7 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.959 | 3.959 | 0.000 | 71 | 288549 | 25.0 | 24.4 | |
| 43 2-Butanone (MEK) | 43 | 3.983 | 3.983 | 0.000 | 100 | 853755 | 125.0 | 139.3 | |
| 48 Chlorobromomethane | 128 | 4.148 | 4.148 | 0.000 | 94 | 145740 | 25.0 | 24.6 | |
| 49 Tetrahydrofuran | 42 | 4.178 | 4.178 | 0.000 | 88 | 215812 | 50.0 | 53.4 | |
| 50 Chloroform | 83 | 4.209 | 4.209 | 0.000 | 81 | 477210 | 25.0 | 24.2 | |
| 51 1,1,1-Trichloroethane | 97 | 4.319 | 4.319 | 0.000 | 93 | 383416 | 25.0 | 24.1 | |
| 52 Cyclohexane | 56 | 4.337 | 4.337 | 0.000 | 93 | 533581 | 25.0 | 23.2 | |
| 55 Carbon tetrachloride | 117 | 4.435 | 4.435 | 0.000 | 79 | 345261 | 25.0 | 23.5 | |
| 54 1,1-Dichloropropene | 75 | 4.441 | 4.441 | 0.000 | 94 | 360439 | 25.0 | 24.2 | |
| 53 Isobutyl alcohol | 43 | 4.599 | 4.599 | 0.000 | 93 | 405097 | 625.0 | 820.9 | |
| 57 Benzene | 78 | 4.605 | 4.605 | 0.000 | 98 | 1053789 | 25.0 | 24.5 | |
| 58 1,2-Dichloroethane | 62 | 4.648 | 4.648 | 0.000 | 89 | 412708 | 25.0 | 25.5 | |
| 59 n-Heptane | 43 | 4.764 | 4.764 | 0.000 | 94 | 541548 | 25.0 | 24.4 | |
| 62 Trichloroethene | 95 | 5.093 | 5.093 | 0.000 | 94 | 275309 | 25.0 | 24.8 | |
| 64 Methylcyclohexane | 83 | 5.203 | 5.203 | 0.000 | 94 | 483731 | 25.0 | 23.9 | |
| 65 1,2-Dichloropropane | 63 | 5.276 | 5.276 | 0.000 | 94 | 295716 | 25.0 | 24.8 | |
| 67 Dibromomethane | 93 | 5.379 | 5.379 | 0.000 | 92 | 175220 | 25.0 | 24.8 | |
| 66 1,4-Dioxane | 88 | 5.398 | 5.398 | 0.000 | 94 | 53564 | 500.0 | 612.2 | M |
| 68 Dichlorobromomethane | 83 | 5.501 | 5.501 | 0.000 | 93 | 381024 | 25.0 | 25.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.715 | 5.715 | 0.000 | 90 | 208642 | 25.0 | 25.1 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.825 | 5.825 | 0.000 | 89 | 441547 | 25.0 | 22.5 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.934 | 5.934 | 0.000 | 97 | 1831594 | 125.0 | 122.8 | |
| 74 Toluene | 92 | 6.062 | 6.062 | 0.000 | 98 | 656895 | 25.0 | 24.0 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.257 | 6.257 | 0.000 | 96 | 384199 | 25.0 | 21.5 | |
| 75 Ethyl methacrylate | 69 | 6.300 | 6.300 | 0.000 | 91 | 409398 | 25.0 | 25.7 | |
| 79 1,1,2-Trichloroethane | 83 | 6.410 | 6.410 | 0.000 | 87 | 213135 | 25.0 | 24.6 | |
| 81 Tetrachloroethene | 166 | 6.483 | 6.483 | 0.000 | 92 | 288331 | 25.0 | 24.3 | |
| 82 1,3-Dichloropropane | 76 | 6.532 | 6.532 | 0.000 | 92 | 443098 | 25.0 | 24.4 | |
| 80 2-Hexanone | 43 | 6.580 | 6.580 | 0.000 | 97 | 1334064 | 125.0 | 130.6 | |
| 83 Chlorodibromomethane | 129 | 6.721 | 6.721 | 0.000 | 89 | 283158 | 24.5 | 23.7 | |
| 84 Ethylene Dibromide | 107 | 6.806 | 6.806 | 0.000 | 97 | 271583 | 25.0 | 24.8 | |
| 87 Chlorobenzene | 112 | 7.172 | 7.172 | 0.000 | 94 | 747240 | 25.0 | 24.3 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.239 | 7.239 | 0.000 | 40 | 266238 | 25.0 | 24.3 | |
| 88 Ethylbenzene | 91 | 7.239 | 7.239 | 0.000 | 99 | 1268920 | 25.0 | 24.6 | |
| 90 m-Xylene & p-Xylene | 106 | 7.330 | 7.330 | 0.000 | 0 | 489629 | 25.0 | 24.5 | |
| 91 o-Xylene | 106 | 7.653 | 7.653 | 0.000 | 98 | 482801 | 25.0 | 24.3 | |
| 92 Styrene | 104 | 7.672 | 7.672 | 0.000 | 95 | 845022 | 25.0 | 25.0 | |
| 95 Bromoform | 173 | 7.861 | 7.861 | 0.000 | 96 | 184425 | 25.0 | 23.4 | |
| 94 Isopropylbenzene | 105 | 7.946 | 7.946 | 0.000 | 96 | 1296125 | 25.0 | 23.7 | |
| 101 Bromobenzene | 156 | 8.220 | 8.220 | 0.000 | 96 | 311409 | 25.0 | 24.0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.239 | 8.239 | 0.000 | 88 | 368148 | 25.0 | 23.5 | |
| 100 1,2,3-Trichloropropane | 110 | 8.269 | 8.269 | 0.000 | 82 | 109407 | 25.0 | 23.7 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.275 | 8.275 | 0.000 | 54 | 40230 | 25.0 | 9.26 | |
| 99 N-Propylbenzene | 91 | 8.281 | 8.281 | 0.000 | 98 | 1516464 | 25.0 | 23.8 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 96 | 293864 | 25.0 | 24.0 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.422 | 8.422 | 0.000 | 71 | 1089278 | 25.0 | 24.3 | |
| 105 4-Chlorotoluene | 126 | 8.458 | 8.458 | 0.000 | 97 | 304317 | 25.0 | 24.0 | |
| 106 tert-Butylbenzene | 134 | 8.690 | 8.690 | 0.000 | 89 | 232656 | 25.0 | 24.8 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.739 | 8.739 | 0.000 | 97 | 1116728 | 25.0 | 24.2 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.873 | 8.873 | 0.000 | 94 | 1412944 | 25.0 | 24.7 | |
| 110 4-Isopropyltoluene | 119 | 8.989 | 8.989 | 0.000 | 95 | 1191407 | 25.0 | 24.9 | |
| 111 1,3-Dichlorobenzene | 146 | 8.995 | 8.995 | 0.000 | 71 | 594754 | 25.0 | 24.3 | |
| 113 1,4-Dichlorobenzene | 146 | 9.068 | 9.068 | 0.000 | 93 | 598251 | 25.0 | 24.4 | |
| 115 n-Butylbenzene | 91 | 9.336 | 9.336 | 0.000 | 98 | 1121422 | 25.0 | 25.2 | |
| 116 1,2-Dichlorobenzene | 146 | 9.385 | 9.385 | 0.000 | 96 | 581925 | 25.0 | 24.4 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.055 | 10.055 | 0.000 | 79 | 73820 | 25.0 | 23.0 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.726 | 10.726 | 0.000 | 90 | 424544 | 25.0 | 25.0 | |
| 120 Hexachlorobutadiene | 225 | 10.842 | 10.842 | 0.000 | 95 | 224276 | 25.0 | 27.8 | |
| 121 Naphthalene | 128 | 10.933 | 10.933 | 0.000 | 97 | 1086440 | 25.0 | 24.0 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.134 | 11.134 | 0.000 | 92 | 385288 | 25.0 | 24.6 | |
| S 123 Total BTEX | 1 | | | | 0 | | | 121.9 | |
| S 124 Xylenes, Total | 1 | | | | 0 | | | 48.8 | |
| S 125 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 48.4 | |
| S 126 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 44.0 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1598.D

Injection Date: 01-May-2014 20:06:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

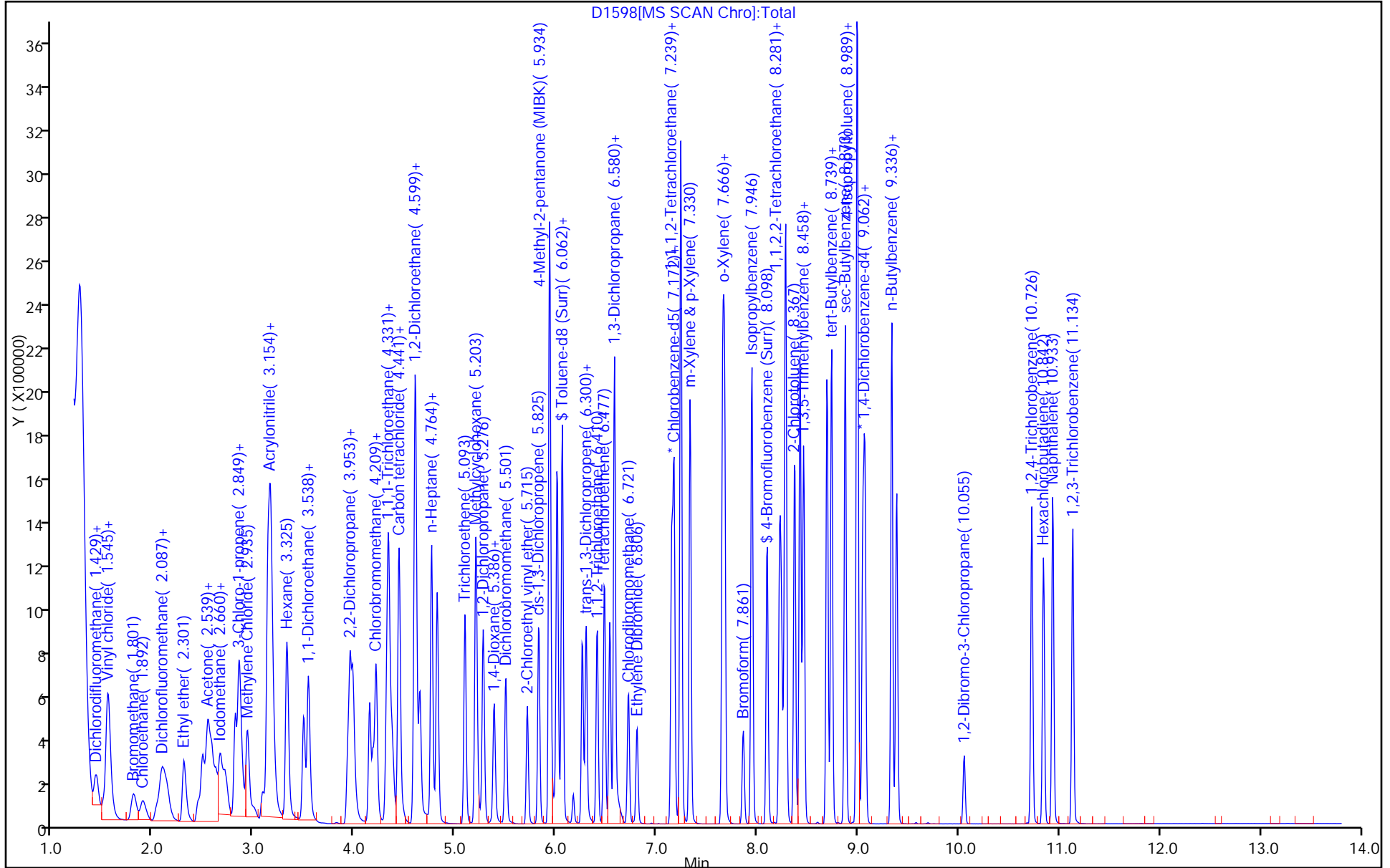
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



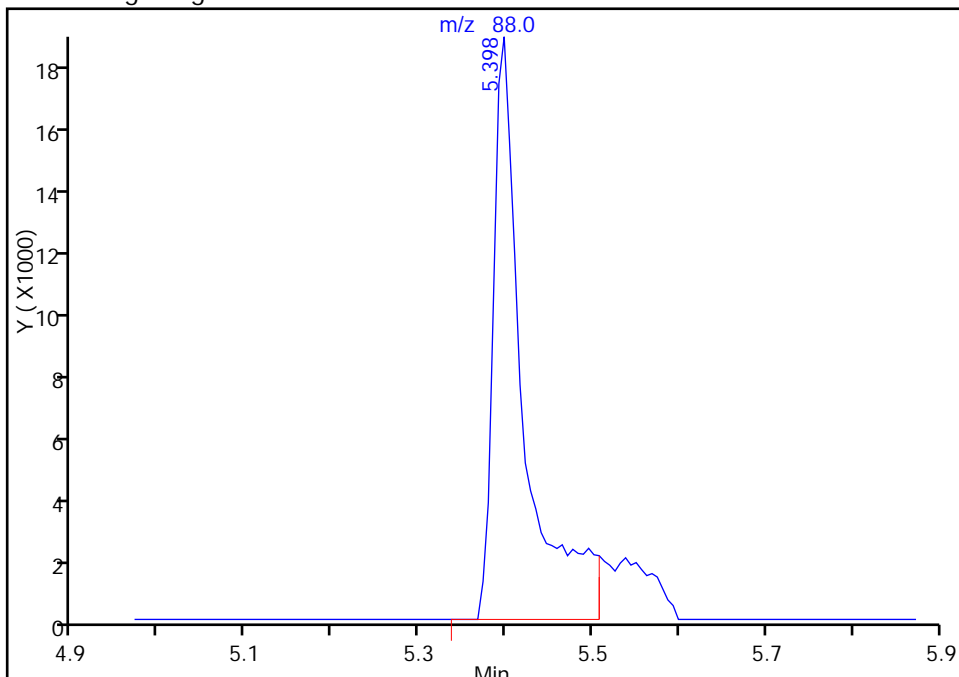
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1598.D
Injection Date: 01-May-2014 20:06:30 Instrument ID: HP5975D
Lims ID: CCVIS
Client ID:
Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: D-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.25 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

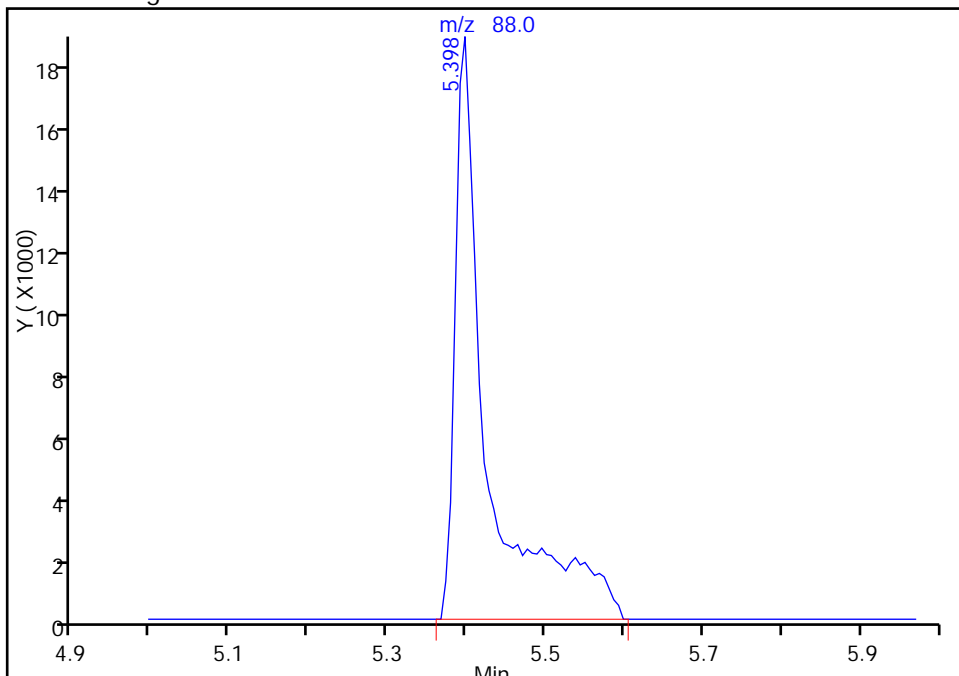
RT: 5.40
Response: 46087
Amount: 528.2702

Processing Integration Results



RT: 5.40
Response: 53564
Amount: 612.1590

Manual Integration Results



Reviewer: cwiklinc, 02-May-2014 02:17:07
Audit Action: Manually Integrated
Audit Reason: Peak Tail

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1207.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 22-Apr-2014 04:32:30 ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0031313-002
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Apr-2014 04:41:54 Calib Date: 21-Apr-2014 19:01:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140421-31299.b\D1194.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK034

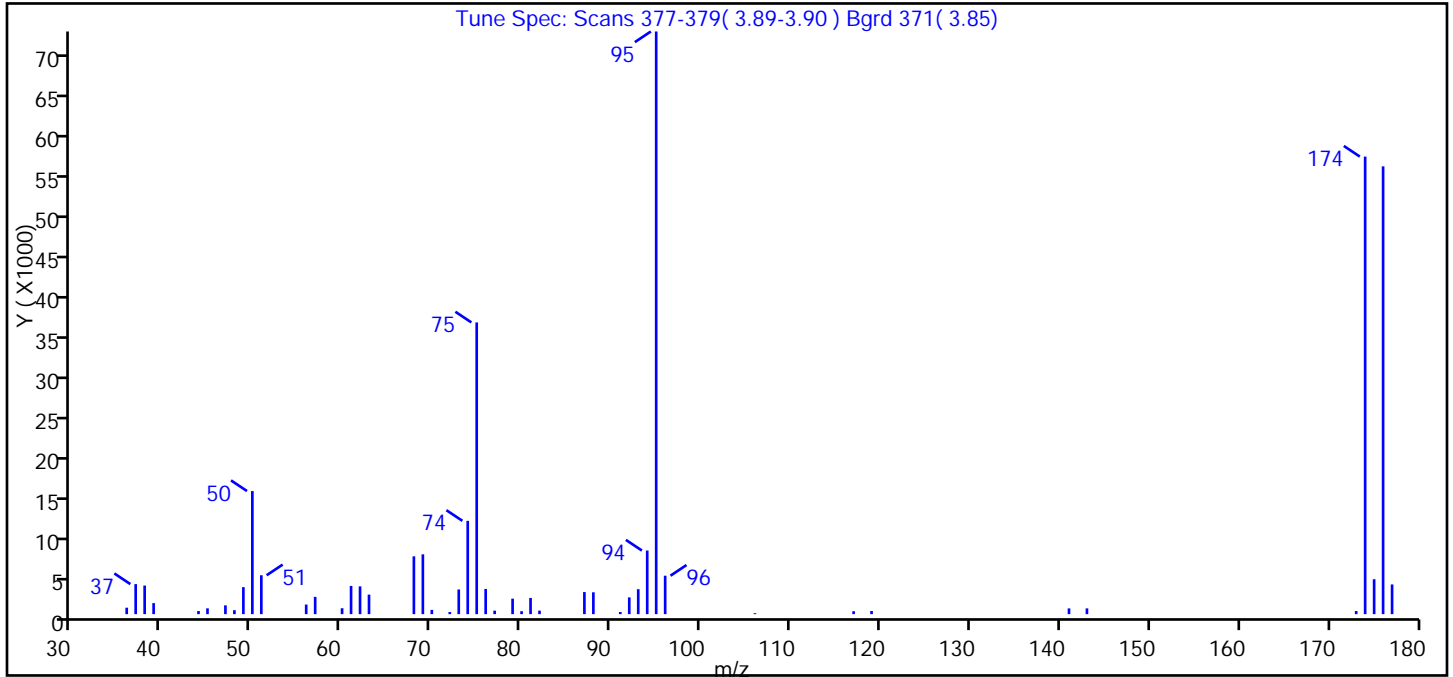
First Level Reviewer: cwiklinc Date: 22-Apr-2014 04:41:54

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| \$ 61 BFB | 95 | 3.891 | 3.891 | 0.000 | 0 | 137061 | NR | NR | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\1207.D
 Injection Date: 22-Apr-2014 04:32:30 Instrument ID: HP5975D
 Lims ID: BFB
 Client ID:
 Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: D-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



| m/z | Ion Abundance Criteria | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 21.10 |
| 75 | 30.00 - 60.00% of mass 95 | 50.10 |
| 96 | 5.00 - 9.00% of mass 95 | 6.60 |
| 173 | Less than 2.00% of mass 174 | 0.50 (0.70) |
| 174 | 50.00 - 120.00% of mass 95 | 78.50 |
| 175 | 5.00 - 9.00% of mass 174 | 6.00 (7.60) |
| 176 | 95.00 - 101.00% of mass 174 | 76.80 (97.90) |
| 177 | 5.00 - 9.00% of mass 176 | 5.10 (6.60) |

Data File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1207.D\D-8260.rsl\spectra.d

Injection Date: 22-Apr-2014 04:32:30

Spectrum: Tune Spec: Scans 377-379(3.89-3.90) Bgrd 371(3.85)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 48

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|-------|------|--------|-------|
| 36.00 | 798 | 57.00 | 2137 | 76.00 | 3112 | 95.00 | 72016 |
| 37.00 | 3712 | 60.00 | 732 | 77.00 | 429 | 96.00 | 4751 |
| 38.00 | 3534 | 61.00 | 3486 | 79.00 | 1916 | 106.00 | 118 |
| 39.00 | 1364 | 62.00 | 3432 | 80.00 | 364 | 117.00 | 362 |
| 44.00 | 384 | 63.00 | 2413 | 81.00 | 1998 | 119.00 | 389 |
| 45.00 | 719 | 68.00 | 7146 | 82.00 | 436 | 141.00 | 709 |
| 47.00 | 1087 | 69.00 | 7394 | 87.00 | 2729 | 143.00 | 712 |
| 48.00 | 490 | 70.00 | 528 | 88.00 | 2701 | 173.00 | 385 |
| 49.00 | 3337 | 72.00 | 258 | 91.00 | 264 | 174.00 | 56552 |
| 50.00 | 15213 | 73.00 | 3048 | 92.00 | 2070 | 175.00 | 4316 |
| 51.00 | 4806 | 74.00 | 11531 | 93.00 | 3083 | 176.00 | 55344 |
| 56.00 | 1186 | 75.00 | 36056 | 94.00 | 7862 | 177.00 | 3672 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1597.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 01-May-2014 19:44:30 ALS Bottle#: 1 Worklist Smp#: 1
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0031670-001
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-May-2014 19:52:27 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

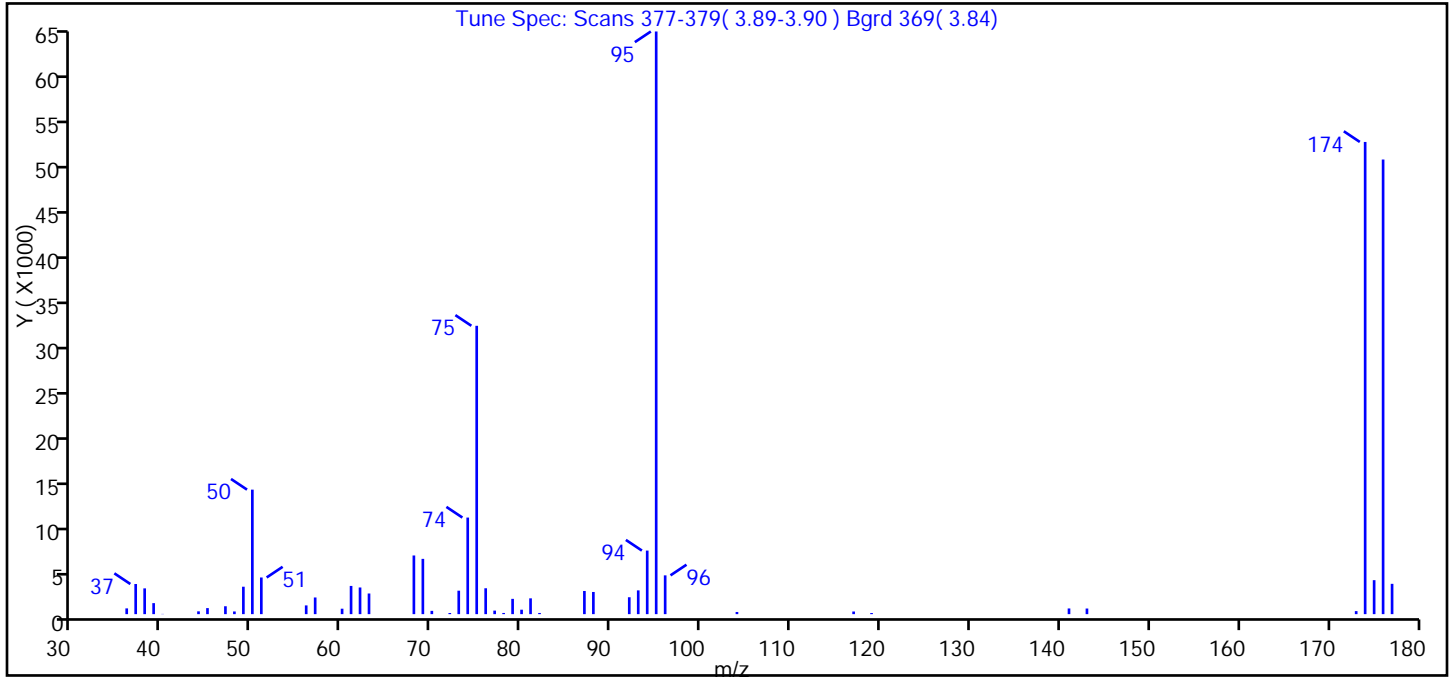
First Level Reviewer: cwiklinc Date: 01-May-2014 19:52:27

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| \$ 61 BFB | 95 | 3.891 | 3.891 | 0.000 | 0 | 124535 | NR | NR | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\1597.D
 Injection Date: 01-May-2014 19:44:30 Instrument ID: HP5975D
 Lims ID: BFB
 Client ID:
 Operator ID: CDC ALS Bottle#: 1 Worklist Smp#: 1
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Method: D-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 61 BFB



| m/z | Ion Abundance Criteria | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 21.40 |
| 75 | 30.00 - 60.00% of mass 95 | 49.50 |
| 96 | 5.00 - 9.00% of mass 95 | 6.70 |
| 173 | Less than 2.00% of mass 174 | 0.50 (0.60) |
| 174 | 50.00 - 120.00% of mass 95 | 81.00 |
| 175 | 5.00 - 9.00% of mass 174 | 5.80 (7.20) |
| 176 | 95.00 - 101.00% of mass 174 | 78.00 (96.30) |
| 177 | 5.00 - 9.00% of mass 176 | 5.20 (6.70) |

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1597.D\D-8260.rsl\spectra.d

Injection Date: 01-May-2014 19:44:30

Spectrum: Tune Spec: Scans 377-379(3.89-3.90) Bgrd 369(3.84)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 49

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|-------|-------|--------|-------|
| 36.00 | 639 | 57.00 | 1851 | 77.00 | 393 | 104.00 | 241 |
| 37.00 | 3347 | 60.00 | 604 | 78.00 | 132 | 117.00 | 293 |
| 38.00 | 2863 | 61.00 | 3134 | 79.00 | 1698 | 119.00 | 123 |
| 39.00 | 1223 | 62.00 | 2962 | 80.00 | 493 | 141.00 | 631 |
| 40.00 | 25 | 63.00 | 2294 | 81.00 | 1756 | 143.00 | 624 |
| 44.00 | 312 | 68.00 | 6517 | 82.00 | 130 | 173.00 | 337 |
| 45.00 | 671 | 69.00 | 6141 | 87.00 | 2573 | 174.00 | 52456 |
| 47.00 | 877 | 70.00 | 365 | 88.00 | 2463 | 175.00 | 3774 |
| 48.00 | 298 | 72.00 | 127 | 92.00 | 1877 | 176.00 | 50504 |
| 49.00 | 3047 | 73.00 | 2605 | 93.00 | 2640 | 177.00 | 3367 |
| 50.00 | 13831 | 74.00 | 10729 | 94.00 | 7061 | | |
| 51.00 | 4073 | 75.00 | 32032 | 95.00 | 64728 | | |
| 56.00 | 971 | 76.00 | 2875 | 96.00 | 4308 | | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-179534/5
 Matrix: Water Lab File ID: D1601.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-179534/5
 Matrix: Water Lab File ID: D1601.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 86 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 106 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 92 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 95 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1601.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 01-May-2014 21:21:30 ALS Bottle#: 4 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0031670-005
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 01-May-2014 21:39:15 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: cwiklinc

Date: 01-May-2014 21:37:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.819 | 4.819 | 0.000 | 98 | 154152 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.147 | 7.147 | 0.000 | 88 | 306125 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 95 | 268218 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.337 | 4.337 | 0.000 | 58 | 217758 | 25.0 | 23.7 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.587 | 4.587 | 0.000 | 0 | 129354 | 25.0 | 21.5 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.007 | 6.007 | 0.000 | 93 | 785730 | 25.0 | 23.0 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 88 | 270188 | 25.0 | 26.6 | |
| 10 Dichlorodifluoromethane | 85 | | 1.325 | | | | | | |
| 11 Chlorodifluoromethane | 51 | | 1.356 | | | | | | |
| 12 Chloromethane | 50 | | 1.435 | | | | | | |
| 13 Vinyl chloride | 62 | | 1.539 | | | | | | |
| 144 Butadiene | 54 | | 1.551 | | | | | | |
| 14 Bromomethane | 94 | | 1.801 | | | | | | |
| 15 Chloroethane | 64 | | 1.898 | | | | | | |
| 16 Dichlorofluoromethane | 67 | | 2.081 | | | | | | |
| 17 Trichlorofluoromethane | 101 | | 2.118 | | | | | | |
| 141 Ethanol | 45 | | 2.301 | | | | | | |
| 18 Ethyl ether | 59 | | 2.301 | | | | | | |
| 19 Propene oxide | 58 | | 2.374 | | | | | | |
| 20 Acrolein | 56 | | 2.447 | | | | | | |
| 22 1,1-Dichloroethene | 96 | | 2.490 | | | | | | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | | 2.545 | | | | | | |
| 23 Acetone | 43 | | 2.587 | | | | | | |
| 25 Iodomethane | 142 | | 2.624 | | | | | | |
| 26 Carbon disulfide | 76 | | 2.667 | | | | | | |
| 24 Isopropyl alcohol | 45 | | 2.752 | | | | | | |
| 28 3-Chloro-1-propene | 41 | | 2.813 | | | | | | |
| 29 Acetonitrile | 40 | | 2.849 | | | | | | |
| 27 Methyl acetate | 43 | | 2.856 | | | | | | |
| 30 Methylene Chloride | 84 | | 2.935 | | | | | | |
| 31 2-Methyl-2-propanol | 59 | | 3.087 | | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 32 Methyl tert-butyl ether | 73 | | 3.136 | | | | | | |
| 34 trans-1,2-Dichloroethene | 96 | | 3.142 | | | | | | |
| 33 Acrylonitrile | 53 | | 3.166 | | | | | | |
| 35 Hexane | 57 | | 3.325 | | | | | | |
| 39 1,1-Dichloroethane | 63 | | 3.490 | | | | | | |
| 36 Isopropyl ether | 45 | | 3.520 | | | | | | |
| 132 Halothane | 117 | | 3.526 | | | | | | |
| 37 Vinyl acetate | 43 | | 3.538 | | | | | | |
| 40 2-Chloro-1,3-butadiene | 53 | | 3.550 | | | | | | |
| 38 1,1-Dimethoxyethane | 75 | | 3.581 | | | | | | |
| 41 Tert-butyl ethyl ether | 59 | | 3.807 | | | | | | |
| 44 2,2-Dichloropropane | 77 | | 3.935 | | | | | | |
| 45 cis-1,2-Dichloroethene | 96 | | 3.959 | | | | | | |
| 43 2-Butanone (MEK) | 43 | | 3.983 | | | | | | |
| 42 Ethyl acetate | 43 | | 4.014 | | | | | | |
| 46 Propionitrile | 54 | | 4.056 | | | | | | |
| 47 Methacrylonitrile | 41 | | 4.148 | | | | | | |
| 48 Chlorobromomethane | 128 | | 4.148 | | | | | | |
| 49 Tetrahydrofuran | 42 | | 4.178 | | | | | | |
| 50 Chloroform | 83 | | 4.209 | | | | | | |
| 51 1,1,1-Trichloroethane | 97 | | 4.319 | | | | | | |
| 52 Cyclohexane | 56 | | 4.337 | | | | | | |
| 55 Carbon tetrachloride | 117 | | 4.435 | | | | | | |
| 54 1,1-Dichloropropene | 75 | | 4.441 | | | | | | |
| 53 Isobutyl alcohol | 43 | | 4.599 | | | | | | |
| 57 Benzene | 78 | | 4.605 | | | | | | |
| 146 Isooctane | 57 | | 4.617 | | | | | | |
| 140 t-Amyl alcohol | 59 | | 4.648 | | | | | | |
| 58 1,2-Dichloroethane | 62 | | 4.648 | | | | | | |
| 56 Tert-amyl methyl ether | 73 | | 4.672 | | | | | | |
| 59 n-Heptane | 43 | | 4.764 | | | | | | |
| 1 1,4-Difluorobenzene | 114 | | 4.904 | | | | | | |
| 154 2,4,4-Trimethyl-1-pentene | 55 | | 5.014 | | | | | | |
| 60 n-Butanol | 56 | | 5.093 | | | | | | |
| 62 Trichloroethene | 95 | | 5.093 | | | | | | |
| 145 Ethyl acrylate | 55 | | 5.178 | | | | | | |
| 64 Methylcyclohexane | 83 | | 5.203 | | | | | | |
| 153 2,4,4-Trimethyl-2-pentene | 97 | | 5.203 | | | | | | |
| 65 1,2-Dichloropropane | 63 | | 5.276 | | | | | | |
| 63 Methyl methacrylate | 41 | | 5.349 | | | | | | |
| 67 Dibromomethane | 93 | | 5.379 | | | | | | |
| 66 1,4-Dioxane | 88 | | 5.398 | | | | | | |
| 68 Dichlorobromomethane | 83 | | 5.501 | | | | | | |
| 70 2-Nitropropane | 43 | | 5.684 | | | | | | |
| 69 2-Chloroethyl vinyl ether | 63 | | 5.715 | | | | | | |
| 71 Epichlorohydrin | 57 | | 5.782 | | | | | | |
| 72 cis-1,3-Dichloropropene | 75 | | 5.825 | | | | | | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | | 5.934 | | | | | | |
| 74 Toluene | 92 | | 6.062 | | | | | | |
| 76 2-Methylthiophene | 97 | | 6.166 | | | | | | |
| 77 trans-1,3-Dichloropropene | 75 | | 6.257 | | | | | | |
| 78 3-Methylthiophene | 97 | | 6.294 | | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 75 Ethyl methacrylate | 69 | | 6.300 | | | | | | |
| 79 1,1,2-Trichloroethane | 83 | | 6.410 | | | | | | |
| 81 Tetrachloroethene | 166 | | 6.483 | | | | | | |
| 82 1,3-Dichloropropane | 76 | | 6.532 | | | | | | |
| 80 2-Hexanone | 43 | | 6.580 | | | | | | |
| 155 n-Butyl acetate | 43 | | 6.666 | | | | | | |
| 83 Chlorodibromomethane | 129 | | 6.721 | | | | | | |
| 84 Ethylene Dibromide | 107 | | 6.806 | | | | | | |
| 139 1-Chlorohexane | 55 | | 7.123 | | | | | | |
| 85 3-Chlorobenzotrifluoride | 180 | | 7.135 | | | | | | |
| 87 Chlorobenzene | 112 | | 7.172 | | | | | | |
| 86 4-Chlorobenzotrifluoride | 180 | | 7.184 | | | | | | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 7.239 | | | | | | |
| 88 Ethylbenzene | 91 | | 7.239 | | | | | | |
| 90 m-Xylene & p-Xylene | 106 | | 7.330 | | | | | | |
| 91 o-Xylene | 106 | | 7.653 | | | | | | |
| 92 Styrene | 104 | | 7.672 | | | | | | |
| 95 Bromoform | 173 | | 7.861 | | | | | | |
| 93 2-Chlorobenzotrifluoride | 180 | | 7.879 | | | | | | |
| 94 Isopropylbenzene | 105 | | 7.946 | | | | | | |
| 96 Cyclohexanone | 55 | | 8.074 | | | | | | |
| 101 Bromobenzene | 156 | | 8.220 | | | | | | |
| 97 1,1,2,2-Tetrachloroethane | 83 | | 8.239 | | | | | | |
| 100 1,2,3-Trichloropropane | 110 | | 8.269 | | | | | | |
| 98 trans-1,4-Dichloro-2-buten | 53 | | 8.275 | | | | | | |
| 99 N-Propylbenzene | 91 | | 8.281 | | | | | | |
| 103 2-Chlorotoluene | 126 | | 8.373 | | | | | | |
| 104 3-Chlorotoluene | 126 | | 8.421 | | | | | | |
| 102 1,3,5-Trimethylbenzene | 105 | | 8.422 | | | | | | |
| 105 4-Chlorotoluene | 126 | | 8.458 | | | | | | |
| 106 tert-Butylbenzene | 134 | | 8.690 | | | | | | |
| 108 Pentachloroethane | 167 | | 8.739 | | | | | | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.739 | | | | | | |
| 109 sec-Butylbenzene | 105 | | 8.873 | | | | | | |
| 110 4-Isopropyltoluene | 119 | | 8.989 | | | | | | |
| 111 1,3-Dichlorobenzene | 146 | | 8.995 | | | | | | |
| 114 Dicyclopentadiene | 66 | | 9.062 | | | | | | |
| 113 1,4-Dichlorobenzene | 146 | | 9.068 | | | | | | |
| 112 1,2,3-Trimethylbenzene | 105 | | 9.092 | | | | | | |
| 143 Benzyl chloride | 91 | | 9.190 | | | | | | |
| 115 n-Butylbenzene | 91 | | 9.336 | | | | | | |
| 116 1,2-Dichlorobenzene | 146 | | 9.385 | | | | | | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 10.055 | | | | | | |
| 118 1,3,5-Trichlorobenzene | 180 | | 10.196 | | | | | | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.726 | | | | | | |
| 120 Hexachlorobutadiene | 225 | | 10.842 | | | | | | |
| 121 Naphthalene | 128 | | 10.933 | | | | | | |
| 122 1,2,3-Trichlorobenzene | 180 | | 11.134 | | | | | | |
| 142 2-Methylnaphthalene | 142 | | 11.817 | | | | | | |
| 152 cis-1,4-Dichloro-2-butene | 88 | | 0.000 | | | | | | |
| 149 Hexachloroethane | 117 | | 0.000 | | | | | | |
| 151 Methyl acrylate | 1 | | 0.000 | | | | | | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|--------------|------------------|------------------|---|----------|-----------------|-------------------|-------|
| 150 Nitrobenzene | 77 | | 0.000 | | | | | | |
| S 123 Total BTEX | 1 | | 30.000 | | | | | | |
| S 124 Xylenes, Total | 1 | | 30.000 | | | | | | |
| S 125 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | | |
| S 126 1,3-Dichloropropene, Total | 1 | | 30.000 | | | | | | |
| T 7 Ethylene oxide | 44 | | 2.000 | | | | | | |
| T 135 1-Bromopropane | 43 | | 4.154 | | | | | | |
| T 136 Propene oxide TIC | 1 | | 0.000 | | | | | | |
| T 138 Ethylene oxide TIC | 1 | | 0.000 | | | | | | |
| T 137 1-Bromopropane TIC | 1 | | 0.000 | | | | | | |
| T 130 Bromoethane TIC | 1 | | 0.000 | | | | | | |
| T 129 Aziridine TIC | 1 | | 0.000 | | | | | | |
| T 133 bis(chloromethyl)ether TIC | 1 | | 0.000 | | | | | | |
| T 134 Pentachloroethane TIC | 1 | | 0.000 | | | | | | |
| T 131 tert-amyl alcohol TIC | 1 | | 0.000 | | | | | | |
| T 9 bis(2-chloromethyl)ether T | 1 | | 0.000 | | | | | | |
| T 128 Hexachloroethane TIC | 1 | | 0.000 | | | | | | |
| T 127 Ethanol TIC | 45 | | 0.000 | | | | | | |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1601.D

Injection Date: 01-May-2014 21:21:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: MB

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

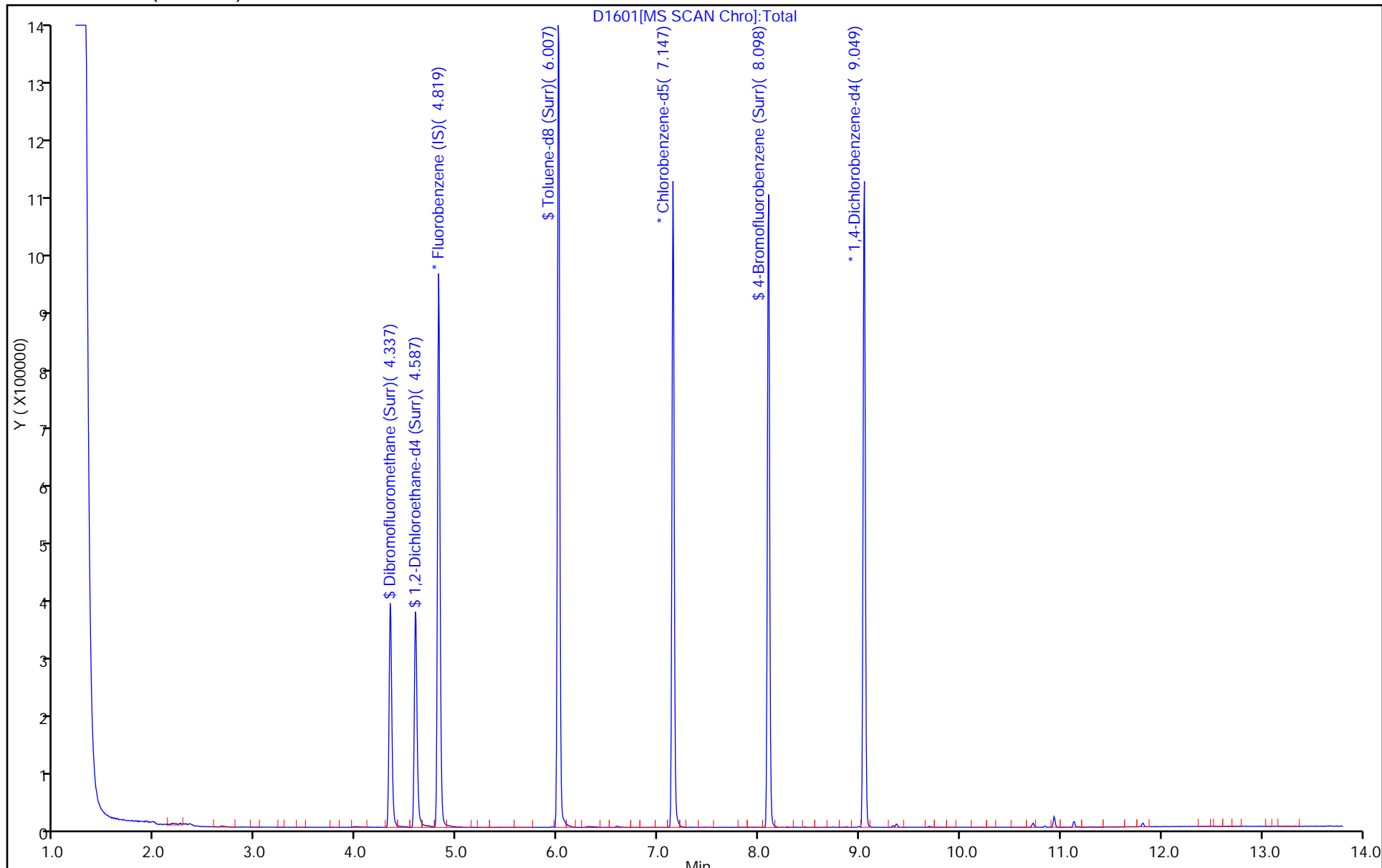
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-179534/4
 Matrix: Water Lab File ID: D1600.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 27.0 | | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 24.1 | | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 26.1 | | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 24.4 | | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 26.0 | | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 25.4 | | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25.6 | | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 25.6 | | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 22.7 | | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 24.5 | | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 25.2 | | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 26.0 | | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 26.2 | | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 25.7 | | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 25.0 | | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 24.9 | | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 125 | | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 115 | | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 117 | | 5.0 | 2.1 |
| 67-64-1 | Acetone | 118 | | 10 | 3.0 |
| 71-43-2 | Benzene | 26.0 | | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 26.0 | | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 22.5 | | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 27.8 | | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 25.3 | | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 26.1 | | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 24.9 | | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 26.9 | | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 26.2 | | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 27.3 | | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 26.4 | | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 23.1 | | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 25.5 | | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 23.6 | | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 32.3 | | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-179534/4
 Matrix: Water Lab File ID: D1600.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:00
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 25.1 | | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 25.2 | | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 126 | | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 25.8 | | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 26.2 | | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 25.8 | | 1.0 | 0.44 |
| 100-42-5 | Styrene | 25.0 | | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 25.3 | | 1.0 | 0.36 |
| 108-88-3 | Toluene | 24.9 | | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 26.4 | | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 21.4 | | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 26.4 | | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 29.0 | | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 26.6 | | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 50.6 | | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 87 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 112 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 94 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 94 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1600.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 01-May-2014 21:00:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0031670-004
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 02:17:51 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: cwiklinc

Date: 01-May-2014 21:36:48

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.818 | 4.819 | -0.001 | 97 | 158333 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.147 | 7.147 | 0.000 | 86 | 328372 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 85 | 285095 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.337 | 4.337 | 0.000 | 65 | 221568 | 25.0 | 23.5 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.587 | 4.587 | 0.000 | 0 | 134221 | 25.0 | 21.7 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.013 | 6.007 | 0.006 | 92 | 856498 | 25.0 | 23.4 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 89 | 305444 | 25.0 | 28.0 | |
| 10 Dichlorodifluoromethane | 85 | 1.331 | 1.325 | 0.006 | 87 | 300372 | 25.0 | 32.3 | |
| 12 Chloromethane | 50 | 1.435 | 1.435 | 0.000 | 89 | 376580 | 25.0 | 27.3 | |
| 13 Vinyl chloride | 62 | 1.545 | 1.539 | 0.006 | 79 | 345592 | 25.0 | 26.6 | |
| 144 Butadiene | 54 | 1.545 | 1.551 | -0.006 | 92 | 412992 | 25.0 | 31.8 | |
| 14 Bromomethane | 94 | 1.801 | 1.801 | 0.000 | 91 | 182646 | 25.0 | 27.8 | |
| 15 Chloroethane | 64 | 1.886 | 1.898 | -0.012 | 94 | 192430 | 25.0 | 26.9 | |
| 16 Dichlorofluoromethane | 67 | 2.081 | 2.081 | 0.000 | 83 | 426423 | 25.0 | 26.2 | |
| 17 Trichlorofluoromethane | 101 | 2.118 | 2.118 | 0.000 | 84 | 298919 | 25.0 | 29.0 | |
| 18 Ethyl ether | 59 | 2.307 | 2.301 | 0.006 | 94 | 247108 | 25.0 | 25.6 | |
| 20 Acrolein | 56 | 2.447 | 2.447 | 0.000 | 91 | 117033 | 125.0 | 101.2 | |
| 22 1,1-Dichloroethene | 96 | 2.490 | 2.490 | 0.000 | 86 | 242836 | 25.0 | 25.4 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.538 | 2.545 | -0.007 | 88 | 258936 | 25.0 | 26.1 | |
| 23 Acetone | 43 | 2.587 | 2.587 | 0.000 | 97 | 331354 | 125.0 | 118.3 | |
| 25 Iodomethane | 142 | 2.630 | 2.624 | 0.006 | 98 | 430155 | 25.0 | 26.4 | |
| 26 Carbon disulfide | 76 | 2.666 | 2.667 | -0.001 | 99 | 851086 | 25.0 | 25.3 | |
| 28 3-Chloro-1-propene | 41 | 2.813 | 2.813 | 0.000 | 85 | 437385 | 25.0 | 23.3 | |
| 27 Methyl acetate | 43 | 2.855 | 2.856 | -0.001 | 96 | 1109137 | 125.0 | 125.7 | |
| 30 Methylene Chloride | 84 | 2.935 | 2.935 | 0.000 | 91 | 270442 | 25.0 | 25.8 | |
| 31 2-Methyl-2-propanol | 59 | 3.087 | 3.087 | 0.000 | 97 | 124983 | 250.0 | 227.4 | |
| 32 Methyl tert-butyl ether | 73 | 3.136 | 3.136 | 0.000 | 90 | 834460 | 25.0 | 25.8 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.142 | 3.142 | 0.000 | 93 | 266230 | 25.0 | 26.4 | |
| 33 Acrylonitrile | 53 | 3.166 | 3.166 | 0.000 | 98 | 1006761 | 250.0 | 223.0 | |
| 35 Hexane | 57 | 3.325 | 3.325 | 0.000 | 93 | 435508 | 25.0 | 24.5 | |
| 39 1,1-Dichloroethane | 63 | 3.496 | 3.490 | 0.006 | 85 | 531945 | 25.0 | 26.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 37 Vinyl acetate | 43 | 3.538 | 3.538 | 0.000 | 97 | 982401 | 50.0 | 40.1 | |
| 44 2,2-Dichloropropane | 77 | 3.935 | 3.935 | 0.000 | 90 | 285810 | 25.0 | 28.5 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.959 | 3.959 | 0.000 | 71 | 287796 | 25.0 | 26.4 | |
| 43 2-Butanone (MEK) | 43 | 3.983 | 3.983 | 0.000 | 94 | 704075 | 125.0 | 124.5 | |
| 48 Chlorobromomethane | 128 | 4.148 | 4.148 | 0.000 | 93 | 143491 | 25.0 | 26.3 | |
| 49 Tetrahydrofuran | 42 | 4.184 | 4.178 | 0.006 | 89 | 166828 | 50.0 | 44.7 | |
| 50 Chloroform | 83 | 4.215 | 4.209 | 0.006 | 81 | 477136 | 25.0 | 26.2 | |
| 51 1,1,1-Trichloroethane | 97 | 4.319 | 4.319 | 0.000 | 93 | 396374 | 25.0 | 27.0 | |
| 52 Cyclohexane | 56 | 4.337 | 4.337 | 0.000 | 93 | 540455 | 25.0 | 25.5 | |
| 55 Carbon tetrachloride | 117 | 4.434 | 4.435 | -0.001 | 77 | 354115 | 25.0 | 26.1 | |
| 54 1,1-Dichloropropene | 75 | 4.441 | 4.441 | 0.000 | 95 | 356697 | 25.0 | 26.0 | |
| 53 Isobutyl alcohol | 43 | 4.599 | 4.599 | 0.000 | 91 | 299941 | 625.0 | 658.8 | |
| 57 Benzene | 78 | 4.605 | 4.605 | 0.000 | 98 | 1033445 | 25.0 | 26.0 | |
| 58 1,2-Dichloroethane | 62 | 4.648 | 4.648 | 0.000 | 89 | 389472 | 25.0 | 26.0 | |
| 59 n-Heptane | 43 | 4.764 | 4.764 | 0.000 | 94 | 533501 | 25.0 | 26.1 | |
| 62 Trichloroethene | 95 | 5.093 | 5.093 | 0.000 | 93 | 269825 | 25.0 | 26.4 | |
| 64 Methylcyclohexane | 83 | 5.203 | 5.203 | 0.000 | 94 | 489941 | 25.0 | 26.2 | |
| 65 1,2-Dichloropropane | 63 | 5.276 | 5.276 | 0.000 | 94 | 288281 | 25.0 | 26.2 | |
| 67 Dibromomethane | 93 | 5.379 | 5.379 | 0.000 | 91 | 169934 | 25.0 | 26.1 | |
| 66 1,4-Dioxane | 88 | 5.398 | 5.398 | 0.000 | 94 | 38827 | 500.0 | 477.0 | M |
| 68 Dichlorobromomethane | 83 | 5.501 | 5.501 | 0.000 | 93 | 365509 | 25.0 | 26.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.715 | 5.715 | 0.000 | 90 | 197461 | 25.0 | 25.7 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.830 | 5.825 | 0.006 | 87 | 418222 | 25.0 | 23.1 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.934 | 5.934 | 0.000 | 97 | 1626584 | 125.0 | 116.6 | |
| 74 Toluene | 92 | 6.062 | 6.062 | 0.000 | 97 | 636923 | 25.0 | 24.9 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.257 | 6.257 | 0.000 | 92 | 357703 | 25.0 | 21.4 | |
| 75 Ethyl methacrylate | 69 | 6.300 | 6.300 | 0.000 | 91 | 360400 | 25.0 | 24.2 | |
| 79 1,1,2-Trichloroethane | 83 | 6.410 | 6.410 | 0.000 | 88 | 197670 | 25.0 | 24.4 | |
| 81 Tetrachloroethene | 166 | 6.483 | 6.483 | 0.000 | 92 | 281168 | 25.0 | 25.3 | |
| 82 1,3-Dichloropropane | 76 | 6.532 | 6.532 | 0.000 | 93 | 410612 | 25.0 | 24.2 | |
| 80 2-Hexanone | 43 | 6.580 | 6.580 | 0.000 | 97 | 1096277 | 125.0 | 114.8 | |
| 83 Chlorodibromomethane | 129 | 6.721 | 6.721 | 0.000 | 89 | 263354 | 24.5 | 23.6 | |
| 84 Ethylene Dibromide | 107 | 6.806 | 6.806 | 0.000 | 98 | 251179 | 25.0 | 24.5 | |
| 87 Chlorobenzene | 112 | 7.172 | 7.172 | 0.000 | 93 | 713446 | 25.0 | 24.9 | |
| 88 Ethylbenzene | 91 | 7.239 | 7.239 | 0.000 | 99 | 1211590 | 25.0 | 25.1 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.239 | 7.239 | 0.000 | 40 | 258172 | 25.0 | 25.2 | |
| 90 m-Xylene & p-Xylene | 106 | 7.330 | 7.330 | 0.000 | 0 | 475552 | 25.0 | 25.4 | |
| 91 o-Xylene | 106 | 7.653 | 7.653 | 0.000 | 97 | 468706 | 25.0 | 25.2 | |
| 92 Styrene | 104 | 7.672 | 7.672 | 0.000 | 95 | 789550 | 25.0 | 25.0 | |
| 95 Bromoform | 173 | 7.861 | 7.861 | 0.000 | 96 | 165332 | 25.0 | 22.5 | |
| 94 Isopropylbenzene | 105 | 7.946 | 7.946 | 0.000 | 96 | 1252808 | 25.0 | 25.2 | |
| 101 Bromobenzene | 156 | 8.220 | 8.220 | 0.000 | 96 | 295208 | 25.0 | 25.0 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.239 | 8.239 | 0.000 | 86 | 341937 | 25.0 | 24.1 | |
| 100 1,2,3-Trichloropropane | 110 | 8.269 | 8.269 | 0.000 | 83 | 100122 | 25.0 | 23.9 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.281 | 8.275 | 0.006 | 51 | 20616 | 25.0 | 5.63 | |
| 99 N-Propylbenzene | 91 | 8.281 | 8.281 | 0.000 | 99 | 1442550 | 25.0 | 24.9 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 96 | 282421 | 25.0 | 25.4 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.421 | 8.422 | -0.001 | 71 | 1046857 | 25.0 | 25.7 | |
| 105 4-Chlorotoluene | 126 | 8.458 | 8.458 | 0.000 | 96 | 283810 | 25.0 | 24.7 | |
| 106 tert-Butylbenzene | 134 | 8.690 | 8.690 | 0.000 | 93 | 221441 | 25.0 | 26.0 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.738 | 8.739 | -0.001 | 97 | 1072969 | 25.0 | 25.6 | |
| 109 sec-Butylbenzene | 105 | 8.873 | 8.873 | 0.000 | 94 | 1358864 | 25.0 | 26.1 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 110 4-Isopropyltoluene | 119 | 8.988 | 8.989 | -0.001 | 94 | 1135264 | 25.0 | 26.1 | |
| 111 1,3-Dichlorobenzene | 146 | 8.995 | 8.995 | -0.001 | 72 | 554817 | 25.0 | 25.0 | |
| 113 1,4-Dichlorobenzene | 146 | 9.068 | 9.068 | 0.000 | 93 | 554927 | 25.0 | 24.9 | |
| 115 n-Butylbenzene | 91 | 9.336 | 9.336 | 0.000 | 98 | 1048756 | 25.0 | 25.9 | |
| 116 1,2-Dichlorobenzene | 146 | 9.385 | 9.385 | 0.000 | 96 | 546646 | 25.0 | 25.2 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.055 | 10.055 | 0.000 | 81 | 66188 | 25.0 | 22.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.726 | 10.726 | 0.000 | 93 | 395353 | 25.0 | 25.6 | |
| 120 Hexachlorobutadiene | 225 | 10.842 | 10.842 | 0.000 | 95 | 208632 | 25.0 | 28.4 | |
| 121 Naphthalene | 128 | 10.933 | 10.933 | 0.000 | 97 | 1005788 | 25.0 | 24.4 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.134 | 11.134 | 0.000 | 94 | 365608 | 25.0 | 25.7 | |

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1600.D

Injection Date: 01-May-2014 21:00:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

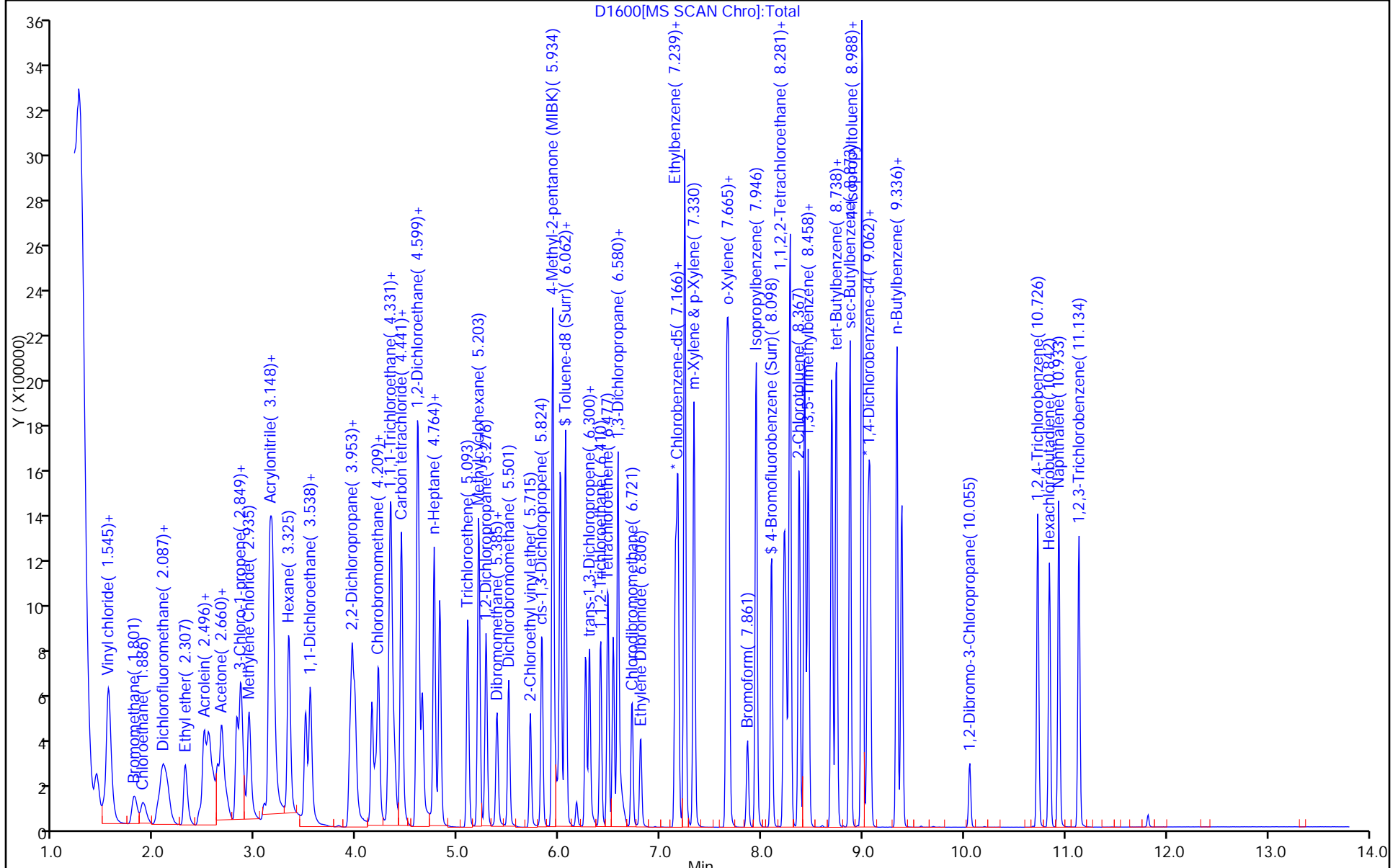
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-179534/25
 Matrix: Water Lab File ID: D1602.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 26.2 | | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 24.7 | | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 26.0 | | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 24.9 | | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 25.7 | | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 25.4 | | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 25.6 | | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 25.6 | | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 23.7 | | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 25.3 | | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 25.3 | | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 25.1 | | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 25.9 | | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 25.7 | | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 25.3 | | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 25.2 | | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 123 | | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 121 | | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 121 | | 5.0 | 2.1 |
| 67-64-1 | Acetone | 107 | | 10 | 3.0 |
| 71-43-2 | Benzene | 25.9 | | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 26.0 | | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 24.1 | | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 27.9 | | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 25.0 | | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 25.8 | | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 25.3 | | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 26.7 | | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 26.0 | | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 27.5 | | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 25.9 | | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 23.4 | | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 25.2 | | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 24.6 | | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 31.9 | | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-179534/25
 Matrix: Water Lab File ID: D1602.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 05/01/2014 21:56
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: RTX-CLPII ID: 0.53(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 179534 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 25.6 | | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 25.5 | | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 120 | | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 24.8 | | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 25.7 | | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 25.3 | | 1.0 | 0.44 |
| 100-42-5 | Styrene | 25.6 | | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 25.5 | | 1.0 | 0.36 |
| 108-88-3 | Toluene | 25.2 | | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 26.1 | | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 22.3 | | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 26.3 | | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 29.0 | | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 26.6 | | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 51.3 | | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 85 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 115 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 95 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 92 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1602.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 01-May-2014 21:56:30 ALS Bottle#: 1 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Misc. Info.: 480-0031670-025
 Operator ID: CDC Instrument ID: HP5975D
 Method: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 02-May-2014 02:17:51 Calib Date: 22-Apr-2014 10:11:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975D\20140422-31313.b\D1223.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK051

First Level Reviewer: cwiklinc

Date: 01-May-2014 22:27:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 147 Fluorobenzene (IS) | 70 | 4.819 | 4.819 | -0.001 | 97 | 158435 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 82 | 7.147 | 7.147 | 0.000 | 86 | 318078 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 9.049 | 9.049 | 0.000 | 84 | 278417 | 25.0 | 25.0 | |
| \$ 148 Dibromofluoromethane (Surr | 113 | 4.337 | 4.337 | 0.000 | 68 | 218240 | 25.0 | 23.1 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 67 | 4.587 | 4.587 | 0.000 | 0 | 131613 | 25.0 | 21.3 | |
| \$ 5 Toluene-d8 (Surr) | 98 | 6.007 | 6.007 | 0.000 | 92 | 844673 | 25.0 | 23.8 | |
| \$ 6 4-Bromofluorobenzene (Surr | 174 | 8.098 | 8.098 | 0.000 | 89 | 303837 | 25.0 | 28.7 | |
| 10 Dichlorodifluoromethane | 85 | 1.331 | 1.325 | 0.006 | 87 | 297305 | 25.0 | 31.9 | |
| 12 Chloromethane | 50 | 1.429 | 1.435 | -0.006 | 88 | 379267 | 25.0 | 27.5 | |
| 13 Vinyl chloride | 62 | 1.539 | 1.539 | 0.000 | 80 | 346931 | 25.0 | 26.6 | |
| 144 Butadiene | 54 | 1.551 | 1.551 | 0.000 | 92 | 403205 | 25.0 | 31.0 | |
| 14 Bromomethane | 94 | 1.801 | 1.801 | 0.000 | 91 | 183614 | 25.0 | 27.9 | |
| 15 Chloroethane | 64 | 1.892 | 1.898 | -0.006 | 94 | 191205 | 25.0 | 26.7 | |
| 16 Dichlorofluoromethane | 67 | 2.075 | 2.081 | -0.006 | 83 | 424082 | 25.0 | 26.1 | |
| 17 Trichlorofluoromethane | 101 | 2.112 | 2.118 | -0.006 | 85 | 299033 | 25.0 | 29.0 | |
| 18 Ethyl ether | 59 | 2.307 | 2.301 | 0.006 | 95 | 243273 | 25.0 | 25.2 | |
| 20 Acrolein | 56 | 2.447 | 2.447 | 0.000 | 91 | 129699 | 125.0 | 112.0 | |
| 22 1,1-Dichloroethene | 96 | 2.496 | 2.490 | 0.006 | 87 | 243037 | 25.0 | 25.4 | |
| 21 1,1,2-Trichloro-1,2,2-trif | 101 | 2.538 | 2.545 | -0.007 | 88 | 258017 | 25.0 | 26.0 | |
| 23 Acetone | 43 | 2.587 | 2.587 | 0.000 | 97 | 301200 | 125.0 | 107.4 | |
| 25 Iodomethane | 142 | 2.630 | 2.624 | 0.006 | 99 | 427842 | 25.0 | 26.3 | |
| 26 Carbon disulfide | 76 | 2.666 | 2.667 | -0.001 | 99 | 839521 | 25.0 | 25.0 | |
| 28 3-Chloro-1-propene | 41 | 2.813 | 2.813 | 0.000 | 85 | 445710 | 25.0 | 23.7 | |
| 27 Methyl acetate | 43 | 2.855 | 2.856 | -0.001 | 96 | 1056824 | 125.0 | 119.7 | |
| 30 Methylene Chloride | 84 | 2.935 | 2.935 | 0.000 | 90 | 264490 | 25.0 | 25.3 | |
| 31 2-Methyl-2-propanol | 59 | 3.081 | 3.087 | -0.006 | 99 | 156171 | 250.0 | 284.0 | |
| 32 Methyl tert-butyl ether | 73 | 3.136 | 3.136 | 0.000 | 90 | 801853 | 25.0 | 24.8 | |
| 34 trans-1,2-Dichloroethene | 96 | 3.142 | 3.142 | 0.000 | 92 | 263366 | 25.0 | 26.1 | |
| 33 Acrylonitrile | 53 | 3.172 | 3.166 | 0.006 | 99 | 958574 | 250.0 | 212.2 | |
| 35 Hexane | 57 | 3.325 | 3.325 | 0.000 | 93 | 435376 | 25.0 | 24.4 | |
| 39 1,1-Dichloroethane | 63 | 3.496 | 3.490 | 0.006 | 85 | 525099 | 25.0 | 25.7 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 37 Vinyl acetate | 43 | 3.538 | 3.538 | 0.000 | 97 | 966082 | 50.0 | 39.4 | |
| 44 2,2-Dichloropropane | 77 | 3.935 | 3.935 | 0.000 | 89 | 266682 | 25.0 | 26.6 | |
| 45 cis-1,2-Dichloroethene | 96 | 3.959 | 3.959 | 0.000 | 71 | 283138 | 25.0 | 25.9 | |
| 43 2-Butanone (MEK) | 43 | 3.983 | 3.983 | 0.000 | 94 | 696174 | 125.0 | 123.0 | |
| 48 Chlorobromomethane | 128 | 4.148 | 4.148 | 0.000 | 94 | 141187 | 25.0 | 25.8 | |
| 49 Tetrahydrofuran | 42 | 4.184 | 4.178 | 0.006 | 90 | 165378 | 50.0 | 44.3 | |
| 50 Chloroform | 83 | 4.209 | 4.209 | 0.000 | 82 | 473609 | 25.0 | 26.0 | |
| 51 1,1,1-Trichloroethane | 97 | 4.319 | 4.319 | 0.000 | 93 | 385466 | 25.0 | 26.2 | |
| 52 Cyclohexane | 56 | 4.337 | 4.337 | 0.000 | 94 | 534153 | 25.0 | 25.2 | |
| 55 Carbon tetrachloride | 117 | 4.434 | 4.435 | -0.001 | 77 | 350226 | 25.0 | 25.8 | |
| 54 1,1-Dichloropropene | 75 | 4.441 | 4.441 | 0.000 | 94 | 355311 | 25.0 | 25.9 | |
| 53 Isobutyl alcohol | 43 | 4.599 | 4.599 | 0.000 | 91 | 294254 | 625.0 | 645.9 | |
| 57 Benzene | 78 | 4.605 | 4.605 | 0.000 | 98 | 1030570 | 25.0 | 25.9 | |
| 58 1,2-Dichloroethane | 62 | 4.648 | 4.648 | 0.000 | 89 | 375945 | 25.0 | 25.1 | |
| 59 n-Heptane | 43 | 4.764 | 4.764 | 0.000 | 94 | 530927 | 25.0 | 25.9 | |
| 62 Trichloroethene | 95 | 5.093 | 5.093 | 0.000 | 94 | 269059 | 25.0 | 26.3 | |
| 64 Methylcyclohexane | 83 | 5.203 | 5.203 | 0.000 | 94 | 481283 | 25.0 | 25.7 | |
| 65 1,2-Dichloropropane | 63 | 5.276 | 5.276 | 0.000 | 95 | 284125 | 25.0 | 25.9 | |
| 67 Dibromomethane | 93 | 5.379 | 5.379 | 0.000 | 90 | 168077 | 25.0 | 25.8 | |
| 66 1,4-Dioxane | 88 | 5.398 | 5.398 | 0.000 | 95 | 39758 | 500.0 | 503.6 | |
| 68 Dichlorobromomethane | 83 | 5.501 | 5.501 | 0.000 | 93 | 366144 | 25.0 | 26.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.715 | 5.715 | 0.000 | 92 | 194625 | 25.0 | 25.3 | |
| 72 cis-1,3-Dichloropropene | 75 | 5.824 | 5.825 | 0.000 | 88 | 423534 | 25.0 | 23.4 | |
| 73 4-Methyl-2-pentanone (MIBK) | 43 | 5.934 | 5.934 | 0.000 | 97 | 1633304 | 125.0 | 120.9 | |
| 74 Toluene | 92 | 6.062 | 6.062 | 0.000 | 97 | 624587 | 25.0 | 25.2 | |
| 77 trans-1,3-Dichloropropene | 75 | 6.257 | 6.257 | 0.000 | 92 | 362018 | 25.0 | 22.3 | |
| 75 Ethyl methacrylate | 69 | 6.300 | 6.300 | 0.000 | 91 | 360688 | 25.0 | 25.0 | |
| 79 1,1,2-Trichloroethane | 83 | 6.410 | 6.410 | 0.000 | 88 | 195347 | 25.0 | 24.9 | |
| 81 Tetrachloroethene | 166 | 6.483 | 6.483 | 0.000 | 92 | 274655 | 25.0 | 25.5 | |
| 82 1,3-Dichloropropane | 76 | 6.532 | 6.532 | 0.000 | 93 | 408296 | 25.0 | 24.9 | |
| 80 2-Hexanone | 43 | 6.580 | 6.580 | 0.000 | 97 | 1122641 | 125.0 | 121.4 | |
| 83 Chlorodibromomethane | 129 | 6.714 | 6.721 | -0.007 | 90 | 265535 | 24.5 | 24.6 | |
| 84 Ethylene Dibromide | 107 | 6.806 | 6.806 | 0.000 | 98 | 251202 | 25.0 | 25.3 | |
| 87 Chlorobenzene | 112 | 7.172 | 7.172 | 0.000 | 93 | 702219 | 25.0 | 25.3 | |
| 88 Ethylbenzene | 91 | 7.239 | 7.239 | 0.000 | 99 | 1198576 | 25.0 | 25.6 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 7.239 | 7.239 | 0.000 | 40 | 252312 | 25.0 | 25.4 | |
| 90 m-Xylene & p-Xylene | 106 | 7.330 | 7.330 | 0.000 | 0 | 466732 | 25.0 | 25.7 | |
| 91 o-Xylene | 106 | 7.653 | 7.653 | 0.000 | 98 | 460673 | 25.0 | 25.6 | |
| 92 Styrene | 104 | 7.672 | 7.672 | 0.000 | 95 | 782969 | 25.0 | 25.6 | |
| 95 Bromoform | 173 | 7.861 | 7.861 | 0.000 | 96 | 171687 | 25.0 | 24.1 | |
| 94 Isopropylbenzene | 105 | 7.946 | 7.946 | 0.000 | 96 | 1236830 | 25.0 | 25.5 | |
| 101 Bromobenzene | 156 | 8.220 | 8.220 | 0.000 | 96 | 289589 | 25.0 | 25.1 | |
| 97 1,1,2,2-Tetrachloroethane | 83 | 8.239 | 8.239 | 0.000 | 88 | 343033 | 25.0 | 24.7 | |
| 100 1,2,3-Trichloropropane | 110 | 8.269 | 8.269 | 0.000 | 82 | 100210 | 25.0 | 24.4 | |
| 98 trans-1,4-Dichloro-2-buten | 53 | 8.275 | 8.275 | 0.000 | 54 | 37215 | 25.0 | 9.61 | |
| 99 N-Propylbenzene | 91 | 8.281 | 8.281 | 0.000 | 98 | 1424834 | 25.0 | 25.2 | |
| 103 2-Chlorotoluene | 126 | 8.373 | 8.373 | 0.000 | 96 | 278196 | 25.0 | 25.6 | |
| 102 1,3,5-Trimethylbenzene | 105 | 8.421 | 8.422 | -0.001 | 67 | 1024433 | 25.0 | 25.7 | |
| 105 4-Chlorotoluene | 126 | 8.458 | 8.458 | 0.000 | 97 | 282059 | 25.0 | 25.1 | |
| 106 tert-Butylbenzene | 134 | 8.690 | 8.690 | 0.000 | 89 | 216224 | 25.0 | 26.0 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.738 | 8.739 | -0.001 | 97 | 1049094 | 25.0 | 25.6 | |
| 109 sec-Butylbenzene | 105 | 8.873 | 8.873 | 0.000 | 94 | 1318073 | 25.0 | 26.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 110 4-Isopropyltoluene | 119 | 8.988 | 8.989 | -0.001 | 95 | 1103892 | 25.0 | 26.0 | |
| 111 1,3-Dichlorobenzene | 146 | 8.995 | 8.995 | 0.000 | 72 | 549540 | 25.0 | 25.3 | |
| 113 1,4-Dichlorobenzene | 146 | 9.068 | 9.068 | 0.000 | 94 | 549007 | 25.0 | 25.2 | |
| 115 n-Butylbenzene | 91 | 9.336 | 9.336 | 0.000 | 97 | 1028871 | 25.0 | 26.0 | |
| 116 1,2-Dichlorobenzene | 146 | 9.385 | 9.385 | 0.000 | 96 | 536510 | 25.0 | 25.3 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 10.055 | 10.055 | 0.000 | 82 | 67434 | 25.0 | 23.7 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.726 | 10.726 | 0.000 | 93 | 386284 | 25.0 | 25.6 | |
| 120 Hexachlorobutadiene | 225 | 10.842 | 10.842 | 0.000 | 95 | 201743 | 25.0 | 28.2 | |
| 121 Naphthalene | 128 | 10.933 | 10.933 | 0.000 | 97 | 995273 | 25.0 | 24.7 | |
| 122 1,2,3-Trichlorobenzene | 180 | 11.134 | 11.134 | 0.000 | 94 | 349488 | 25.0 | 25.2 | |

Data File: \\Bufchrom\ChromData\HP5975D\20140501-31670.b\D1602.D

Injection Date: 01-May-2014 21:56:30

Instrument ID: HP5975D

Operator ID: CDC

Lims ID: LCSD

Worklist Smp#: 25

Client ID:

Purge Vol: 5.000 mL

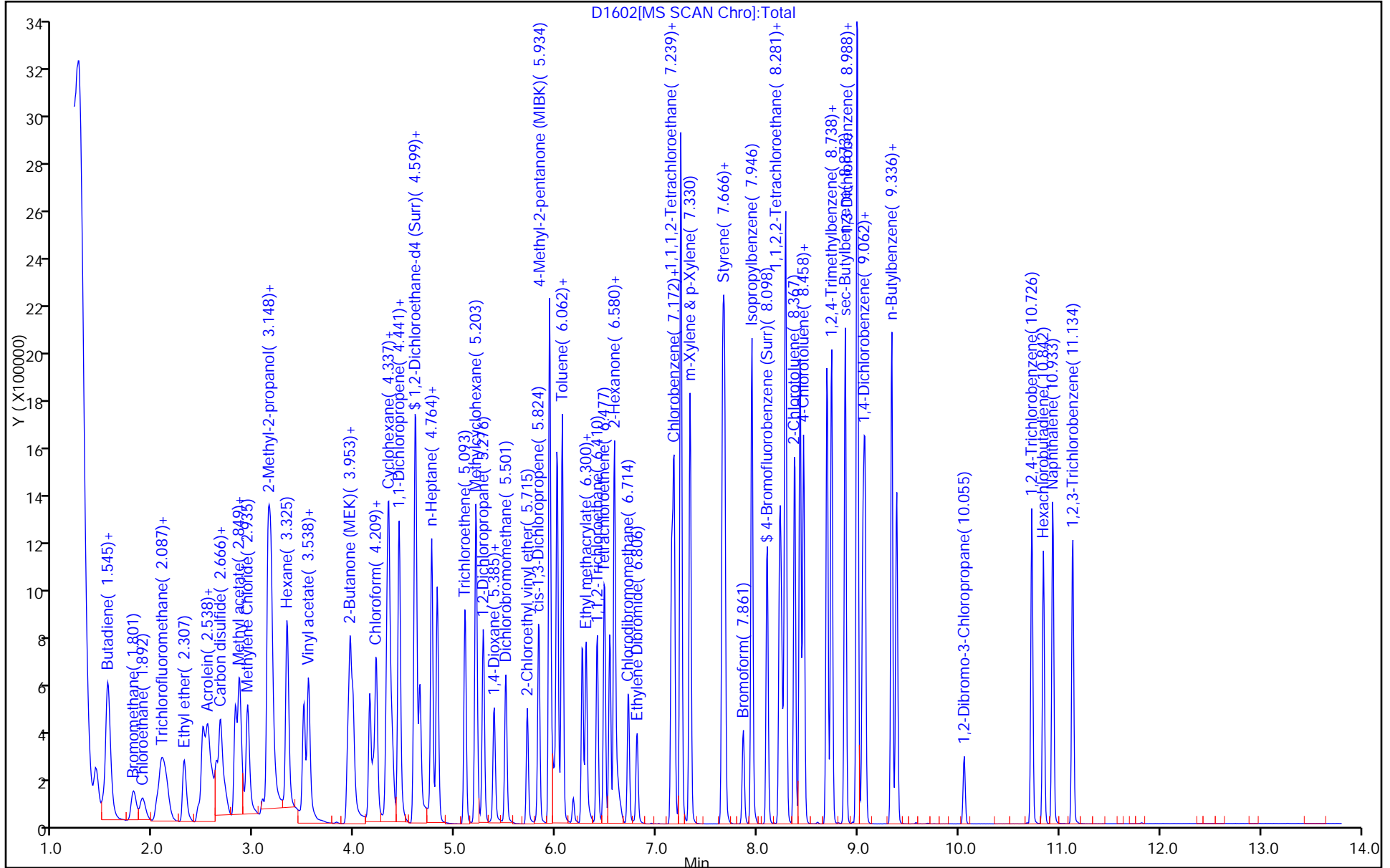
Dil. Factor: 1.0000

ALS Bottle#: 1

Method: D-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Instrument ID: HP5975D Start Date: 04/22/2014 04:32Analysis Batch Number: 177332 End Date: 04/22/2014 11:54

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|------------------|------------------|-----------------|-------------|---------------------|
| BFB 480-177332/2 | | 04/22/2014 04:32 | 1 | D1207.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/4 | | 04/22/2014 05:18 | 1 | D1209.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/5 | | 04/22/2014 05:39 | 1 | D1210.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/6 | | 04/22/2014 06:01 | 1 | D1211.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/7 | | 04/22/2014 06:22 | 1 | D1212.D | RTX-CLPII 0.53 (mm) |
| ICIS 480-177332/8 | | 04/22/2014 06:43 | 1 | D1213.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/9 | | 04/22/2014 07:04 | 1 | D1214.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/10 | | 04/22/2014 07:25 | 1 | D1215.D | RTX-CLPII 0.53 (mm) |
| IC 480-177332/12 | | 04/22/2014 08:07 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/13 | | 04/22/2014 08:28 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/14 | | 04/22/2014 08:48 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/15 | | 04/22/2014 09:09 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/16 | | 04/22/2014 09:30 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/17 | | 04/22/2014 09:50 | 1 | | RTX-CLPII 0.53 (mm) |
| IC 480-177332/18 | | 04/22/2014 10:11 | 1 | | RTX-CLPII 0.53 (mm) |
| MDLV 480-177332/20 | | 04/22/2014 10:52 | 1 | | RTX-CLPII 0.53 (mm) |
| MDLV 480-177332/21 | | 04/22/2014 11:13 | 1 | | RTX-CLPII 0.53 (mm) |
| ICV 480-177332/22 | | 04/22/2014 11:33 | 1 | | RTX-CLPII 0.53 (mm) |
| ICV 480-177332/23 | | 04/22/2014 11:54 | 1 | | RTX-CLPII 0.53 (mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-59007-1

SDG No.: _____

Instrument ID: HP5975D Start Date: 05/01/2014 19:44Analysis Batch Number: 179534 End Date: 05/02/2014 04:35

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|------------------|------------------|-----------------|-------------|---------------------|
| BFB 480-179534/1 | | 05/01/2014 19:44 | 1 | D1597.D | RTX-CLPII 0.53 (mm) |
| CCVIS 480-179534/2 | | 05/01/2014 20:06 | 1 | D1598.D | RTX-CLPII 0.53 (mm) |
| CCV 480-179534/3 | | 05/01/2014 20:40 | 1 | | RTX-CLPII 0.53 (mm) |
| LCS 480-179534/4 | | 05/01/2014 21:00 | 1 | D1600.D | RTX-CLPII 0.53 (mm) |
| MB 480-179534/5 | | 05/01/2014 21:21 | 1 | D1601.D | RTX-CLPII 0.53 (mm) |
| LCSD 480-179534/25 | | 05/01/2014 21:56 | 1 | D1602.D | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/01/2014 22:17 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/01/2014 22:38 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/01/2014 22:58 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/01/2014 23:19 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/01/2014 23:40 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 00:01 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 00:22 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 00:43 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 01:05 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 01:25 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 01:46 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 02:07 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 02:28 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 02:50 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 03:11 | 1 | | RTX-CLPII 0.53 (mm) |
| ZZZZZ | | 05/02/2014 03:31 | 1 | | RTX-CLPII 0.53 (mm) |
| 480-59007-1 | 1-2 | 05/02/2014 03:53 | 1 | D1619.D | RTX-CLPII 0.53 (mm) |
| 480-59007-2 | 1-3 | 05/02/2014 04:14 | 1 | D1620.D | RTX-CLPII 0.53 (mm) |
| 480-59007-3 | TRIP BLANK | 05/02/2014 04:35 | 1 | D1621.D | RTX-CLPII 0.53 (mm) |

GC/MS VOA Worksheet

Batch Number: 480-179534
 Method: 8260C
 Analyst: Quirk, Patrick J

Date Open: May 01 2014 7:44PM
 Batch End:

| Lab ID | Client ID | Method Chain | Basis | Initial pH | Initial weight/volume of sample | Final weight/volume of sample | Instrument | 2MTP_WRK_00031 | 3MTP_WRK_00034 |
|--------------------|------------|--------------|-------|------------|---------------------------------|-------------------------------|------------|----------------|----------------|
| BFB~480-179534/1 | | 8260C | | | 1 uL | 1 uL | HP5975D | | |
| CCVIS~480-179534/2 | | 8260C | | | 5 mL | 5 mL | HP5975D | | |
| CCV~480-179534/3 | | 8260C | | | 5 mL | 5 mL | HP5975D | 12.5 uL | 12.5 uL |
| LCS~480-179534/4 | | 8260C | | | 5 mL | 5 mL | HP5975D | | |
| MB~480-179534/5 | | 8260C | | | 5 mL | 5 mL | HP5975D | | |
| 480-58638-A-1 | TB | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-2 | DUP1 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-3 | GWB-2 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-4 | GWB-3 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-5 | GWC-10 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-6 | GWC-13 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-7 | GWC-1AR | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-8 | GWC-3A | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-9 | GWC-3RA | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-10 | GWC-6A | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-11 | GWC-7AR | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-13 | GWC-8A | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-14 | GWC-8R | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58638-F-15 | GWC-9A | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58892-B-7 | BIW-2 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-58892-B-13 | BMW-13S | 8260C | T | 7 SU | 5 mL | 5 mL | HP5975D | | |
| 480-59007-A-1 | 1-2 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-59007-A-2 | 1-3 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| 480-59007-A-3 | TRIP BLANK | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975D | | |
| LCSD~480-179534/25 | | 8260C | | | 5 mL | 5 mL | HP5975D | | |

GC/MS VOA Worksheet

Batch Number: 480-179534

Date Open: May 01 2014 7:44PM

Method: 8260C

Batch End:

Analyst: Quirk, Patrick J

| Lab ID | Client ID | Method Chain | Basis | 8260 CORP mix_00010 | ADD CORP mix_00008 | BFB_WRK_00033 | D_8260_IS_00021 | D_8260_Surr_00025 | GAS CORP mix_00023 |
|------------------------|------------|--------------|-------|------------------------|--------------------|---------------|-----------------|-------------------|-----------------------|
| BFB~480-179534/1 | | 8260C | | | | 1 uL | | | |
| CCVIS~480-179534/ 2 | | 8260C | | 12.5 uL | | | 1.25 uL | 1.25 uL | 12.5 uL |
| CCV~480-179534/3 | | 8260C | | | 12.5 uL | | 1.25 uL | 1.25 uL | |
| LCS~480-179534/4 | | 8260C | | 12.5 uL | | | 1.25 uL | 1.25 uL | 12.5 uL |
| MB~480-179534/5 | | 8260C | | | | | 1.25 uL | 1.25 uL | |
| 480-58638-A-1 | TB | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-2 | DUP1 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-3 | GWB-2 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-4 | GWB-3 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-5 | GWC-10 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-6 | GWC-13 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-7 | GWC-1AR | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-8 | GWC-3A | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-9 | GWC-3RA | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-10 | GWC-6A | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-11 | GWC-7AR | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-13 | GWC-8A | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-14 | GWC-8R | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58638-F-15 | GWC-9A | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58892-B-7 | BIW-2 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-58892-B-13 | BMW-13S | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-59007-A-1 | 1-2 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-59007-A-2 | 1-3 | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| 480-59007-A-3 | TRIP BLANK | 8260C | T | | | | 1.25 uL | 1.25 uL | |
| LCSD~480-179534/ 25 | | 8260C | | 12.5 uL | | | 1.25 uL | 1.25 uL | 12.5 uL |

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-59007-1

Login Number: 59007

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | 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. | False | |
| 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: 480-59805-1

Client Project/Site: Vestal Water Supply RSO

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Bruce Nelson



Authorized for release by:

5/20/2014 2:20:23 PM

Candace Fox, Manager of Project Management

(716)504-9844

candace.fox@testamericainc.com

LINKS

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results through

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www.testamericainc.com

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

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

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

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Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Job ID: 480-59805-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative
480-59805-1

Comments

No additional comments.

Receipt

The samples were received on 5/14/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5° C.

GC/MS VOA

Method(s) 8260C: The large number of analytes included in the continuing calibration verification (CCV) in batch 182124 gives a high probability that one or more analytes will be outside acceptance criteria. As indicated in the reference method, analysis may proceed as long as no more than 20% of the analytes are outside the method-defined %D criteria.

No other analytical or quality issues were noted.

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Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-2A-INF-051214

Lab Sample ID: 480-59805-1

No Detections.

Client Sample ID: VESTAL-1-2A-EFF-051214

Lab Sample ID: 480-59805-2

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

Client Sample ID: VESTAL-1-3-INF-051214

Lab Sample ID: 480-59805-3

No Detections.

Client Sample ID: VESTAL-1-3-EFF-051214

Lab Sample ID: 480-59805-4

| 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 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59805-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| Acetone | 6.1 | 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: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-2A-INF-051214

Lab Sample ID: 480-59805-1

Date Collected: 05/12/14 09:30

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 07:27 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 07:27 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 07:27 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 07:27 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 05/15/14 07:27 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 07:27 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 07:27 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 07:27 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 07:27 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 07:27 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 07:27 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 07:27 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 07:27 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 07:27 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 07:27 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 07:27 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 07:27 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 07:27 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 07:27 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 07:27 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 07:27 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 07:27 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 07:27 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 07:27 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 07:27 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 07:27 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 07:27 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 07:27 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 07:27 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 07:27 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 07:27 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 07:27 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 07:27 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 07:27 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 07:27 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 07:27 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-2A-INF-051214

Lab Sample ID: 480-59805-1

Date Collected: 05/12/14 09:30

Matrix: Water

Date Received: 05/14/14 09:00

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 103 | | 71 - 126 | | 05/15/14 07:27 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 137 | | 05/15/14 07:27 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | 05/15/14 07:27 | 1 |

Client Sample ID: VESTAL-1-2A-EFF-051214

Lab Sample ID: 480-59805-2

Date Collected: 05/12/14 09:33

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 07:51 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 07:51 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 07:51 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 07:51 | 1 |
| Acetone | 3.0 | J | 10 | 3.0 | ug/L | | | 05/15/14 07:51 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 07:51 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 07:51 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 07:51 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 07:51 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 07:51 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 07:51 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 07:51 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 07:51 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 07:51 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 07:51 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 07:51 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 07:51 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 07:51 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 07:51 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 07:51 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 07:51 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 07:51 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 07:51 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 07:51 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 07:51 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 07:51 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 07:51 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 07:51 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-2A-EFF-051214

Lab Sample ID: 480-59805-2

Date Collected: 05/12/14 09:33

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 07:51 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 07:51 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 07:51 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 07:51 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 07:51 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 07:51 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 07:51 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 07:51 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | | 71 - 126 | | | | | 05/15/14 07:51 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 137 | | | | | 05/15/14 07:51 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | | 05/15/14 07:51 | 1 |

Client Sample ID: VESTAL-1-3-INF-051214

Lab Sample ID: 480-59805-3

Date Collected: 05/12/14 09:38

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 08:14 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 08:14 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 08:14 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 08:14 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 05/15/14 08:14 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 08:14 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 08:14 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 08:14 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 08:14 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 08:14 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 08:14 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 08:14 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 08:14 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 08:14 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 08:14 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 08:14 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 08:14 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 08:14 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-3-INF-051214

Lab Sample ID: 480-59805-3

Date Collected: 05/12/14 09:38

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 08:14 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 08:14 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 08:14 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 08:14 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 08:14 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 08:14 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 08:14 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 08:14 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 08:14 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 08:14 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 08:14 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 08:14 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 08:14 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 08:14 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 08:14 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 08:14 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 08:14 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 08:14 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 100 | | 71 - 126 | | | | | 05/15/14 08:14 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 103 | | 66 - 137 | | | | | 05/15/14 08:14 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 05/15/14 08:14 | 1 |

Client Sample ID: VESTAL-1-3-EFF-051214

Lab Sample ID: 480-59805-4

Date Collected: 05/12/14 09:41

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,1,1,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 08:38 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 08:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 08:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 08:38 | 1 |
| Acetone | 3.5 | J | 10 | 3.0 | ug/L | | | 05/15/14 08:38 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 08:38 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 08:38 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 08:38 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-3-EFF-051214

Lab Sample ID: 480-59805-4

Date Collected: 05/12/14 09:41

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 08:38 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 08:38 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 08:38 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 08:38 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 08:38 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 08:38 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 08:38 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 08:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 08:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 08:38 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 08:38 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 08:38 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 08:38 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 08:38 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 08:38 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 08:38 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 08:38 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 08:38 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 08:38 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 08:38 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 08:38 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 08:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 08:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 08:38 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 08:38 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 08:38 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 08:38 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 08:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| Toluene-d8 (Surr) | 98 | | 71 - 126 | | | | | 05/15/14 08:38 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 106 | | 66 - 137 | | | | | 05/15/14 08:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 05/15/14 08:38 | 1 |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59805-5

Date Collected: 05/12/14 00:00

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 09:02 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59805-5

Date Collected: 05/12/14 00:00

Matrix: Water

Date Received: 05/14/14 09:00

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 09:02 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 09:02 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 09:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 09:02 | 1 |
| Acetone | 6.1 | J | 10 | 3.0 | ug/L | | | 05/15/14 09:02 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 09:02 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 09:02 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 09:02 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 09:02 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 09:02 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 09:02 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 09:02 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 09:02 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 09:02 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 09:02 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 09:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 09:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 09:02 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 09:02 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 09:02 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 09:02 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 09:02 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 09:02 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 09:02 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 09:02 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 09:02 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 09:02 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 09:02 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 09:02 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 09:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 09:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 09:02 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 09:02 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 09:02 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 09:02 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 09:02 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| Toluene-d8 (Surr) | 100 | | 71 - 126 | | 05/15/14 09:02 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 66 - 137 | | 05/15/14 09:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | 05/15/14 09:02 | 1 |

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|------------------|------------------------|--|-------------------|-----------------|
| | | TOL (71-126) | 12DCE (66-137) | BFB (73-120) |
| 480-59805-1 | VESTAL-1-2A-INF-051214 | 103 | 104 | 102 |
| 480-59805-2 | VESTAL-1-2A-EFF-051214 | 100 | 104 | 101 |
| 480-59805-3 | VESTAL-1-3-INF-051214 | 100 | 103 | 100 |
| 480-59805-4 | VESTAL-1-3-EFF-051214 | 98 | 106 | 98 |
| 480-59805-5 | TRIP BLANK | 100 | 108 | 100 |
| LCS 480-182124/5 | Lab Control Sample | 96 | 98 | 101 |
| MB 480-182124/7 | Method Blank | 102 | 105 | 104 |

Surrogate Legend

TOL = Toluene-d8 (Surr)

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

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

Lab Sample ID: MB 480-182124/7

Matrix: Water

Analysis Batch: 182124

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 05/15/14 01:21 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 05/15/14 01:21 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 05/15/14 01:21 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 05/15/14 01:21 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 05/15/14 01:21 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 05/15/14 01:21 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 05/15/14 01:21 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 05/15/14 01:21 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 05/15/14 01:21 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 05/15/14 01:21 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 05/15/14 01:21 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 05/15/14 01:21 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 01:21 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 05/15/14 01:21 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 05/15/14 01:21 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 05/15/14 01:21 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 05/15/14 01:21 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 01:21 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 05/15/14 01:21 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 05/15/14 01:21 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 05/15/14 01:21 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 01:21 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 05/15/14 01:21 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 05/15/14 01:21 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 01:21 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 05/15/14 01:21 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 05/15/14 01:21 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 05/15/14 01:21 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 05/15/14 01:21 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 05/15/14 01:21 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 01:21 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 05/15/14 01:21 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 05/15/14 01:21 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 05/15/14 01:21 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 05/15/14 01:21 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 05/15/14 01:21 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

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

Lab Sample ID: MB 480-182124/7

Matrix: Water

Analysis Batch: 182124

Client Sample ID: Method Blank

Prep Type: Total/NA

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Toluene-d8 (Surr) | 102 | | 71 - 126 | | 05/15/14 01:21 | 1 |
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 137 | | 05/15/14 01:21 | 1 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 | | 05/15/14 01:21 | 1 |

Lab Sample ID: LCS 480-182124/5

Matrix: Water

Analysis Batch: 182124

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. |
|--------------------------|-------------|------------|---------------|------|---|------|----------|
| | | | | | | | Limits |
| 1,1-Dichloroethane | 25.0 | 24.6 | | ug/L | | 98 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 58 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 25.2 | | ug/L | | 101 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 25.7 | | ug/L | | 103 | 75 - 127 |
| Benzene | 25.0 | 23.9 | | ug/L | | 96 | 71 - 124 |
| Chlorobenzene | 25.0 | 24.9 | | ug/L | | 100 | 72 - 120 |
| cis-1,2-Dichloroethene | 25.0 | 24.7 | | ug/L | | 99 | 74 - 124 |
| Ethylbenzene | 25.0 | 24.1 | | ug/L | | 96 | 77 - 123 |
| Methyl tert-butyl ether | 25.0 | 25.1 | | ug/L | | 100 | 64 - 127 |
| Tetrachloroethene | 25.0 | 24.8 | | ug/L | | 99 | 74 - 122 |
| Toluene | 25.0 | 24.4 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 23.8 | | ug/L | | 95 | 73 - 127 |
| Trichloroethene | 25.0 | 24.1 | | ug/L | | 96 | 74 - 123 |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| Toluene-d8 (Surr) | 96 | | 71 - 126 |
| 1,2-Dichloroethane-d4 (Surr) | 98 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 |

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

GC/MS VOA

Analysis Batch: 182124

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|------------------------|-----------|--------|--------|------------|
| 480-59805-1 | VESTAL-1-2A-INF-051214 | Total/NA | Water | 8260C | |
| 480-59805-2 | VESTAL-1-2A-EFF-051214 | Total/NA | Water | 8260C | |
| 480-59805-3 | VESTAL-1-3-INF-051214 | Total/NA | Water | 8260C | |
| 480-59805-4 | VESTAL-1-3-EFF-051214 | Total/NA | Water | 8260C | |
| 480-59805-5 | TRIP BLANK | Total/NA | Water | 8260C | |
| LCS 480-182124/5 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-182124/7 | Method Blank | Total/NA | Water | 8260C | |

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Client Sample ID: VESTAL-1-2A-INF-051214

Lab Sample ID: 480-59805-1

Date Collected: 05/12/14 09:30

Matrix: Water

Date Received: 05/14/14 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 182124 | 05/15/14 07:27 | TRB | TAL BUF |

Client Sample ID: VESTAL-1-2A-EFF-051214

Lab Sample ID: 480-59805-2

Date Collected: 05/12/14 09:33

Matrix: Water

Date Received: 05/14/14 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 182124 | 05/15/14 07:51 | TRB | TAL BUF |

Client Sample ID: VESTAL-1-3-INF-051214

Lab Sample ID: 480-59805-3

Date Collected: 05/12/14 09:38

Matrix: Water

Date Received: 05/14/14 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 182124 | 05/15/14 08:14 | TRB | TAL BUF |

Client Sample ID: VESTAL-1-3-EFF-051214

Lab Sample ID: 480-59805-4

Date Collected: 05/12/14 09:41

Matrix: Water

Date Received: 05/14/14 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 182124 | 05/15/14 08:38 | TRB | TAL BUF |

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-59805-5

Date Collected: 05/12/14 00:00

Matrix: Water

Date Received: 05/14/14 09:00

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 182124 | 05/15/14 09:02 | TRB | TAL BUF |

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

Laboratory: TestAmerica Buffalo

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|-------------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ | State Program | 6 | 88-0686 | 07-06-14 |
| California | State Program | 9 | 1169CA | 09-30-14 |
| Connecticut | State Program | 1 | PH-0568 | 09-30-14 |
| Florida | NELAP | 4 | E87672 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 03-31-15 |
| Illinois | NELAP | 5 | 200003 | 09-30-14 |
| Iowa | State Program | 7 | 374 | 03-01-15 |
| Kansas | NELAP | 7 | E-10187 | 01-31-15 * |
| Kentucky (DW) | State Program | 4 | 90029 | 12-31-14 |
| Kentucky (UST) | State Program | 4 | 30 | 03-31-15 |
| Louisiana | NELAP | 6 | 02031 | 06-30-14 |
| Maine | State Program | 1 | NY00044 | 12-04-14 |
| Maryland | State Program | 3 | 294 | 03-31-15 |
| Massachusetts | State Program | 1 | M-NY044 | 06-30-14 |
| Michigan | State Program | 5 | 9937 | 03-31-15 |
| Minnesota | NELAP | 5 | 036-999-337 | 12-31-14 |
| New Hampshire | NELAP | 1 | 2337 | 11-17-14 |
| New Jersey | NELAP | 2 | NY455 | 06-30-14 |
| New York | NELAP | 2 | 10026 | 03-31-15 |
| North Dakota | State Program | 8 | R-176 | 03-31-14 * |
| Oklahoma | State Program | 6 | 9421 | 08-31-14 |
| Oregon | NELAP | 10 | NY200003 | 06-09-14 |
| Pennsylvania | NELAP | 3 | 68-00281 | 07-31-14 |
| Rhode Island | State Program | 1 | LAO00328 | 12-30-14 |
| Tennessee | State Program | 4 | TN02970 | 03-31-15 |
| Texas | NELAP | 6 | T104704412-11-2 | 07-31-14 |
| USDA | Federal | | P330-11-00386 | 11-22-14 |
| Virginia | NELAP | 3 | 460185 | 09-14-14 |
| Washington | State Program | 10 | C784 | 02-10-15 |
| West Virginia DEP | State Program | 3 | 252 | 05-31-14 |
| Wisconsin | State Program | 5 | 998310390 | 08-31-14 |

* Expired certification is currently pending renewal and is considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

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

Protocol References:

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

Laboratory References:

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

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Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-59805-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|------------------------|--------|----------------|----------------|
| 480-59805-1 | VESTAL-1-2A-INF-051214 | Water | 05/12/14 09:30 | 05/14/14 09:00 |
| 480-59805-2 | VESTAL-1-2A-EFF-051214 | Water | 05/12/14 09:33 | 05/14/14 09:00 |
| 480-59805-3 | VESTAL-1-3-INF-051214 | Water | 05/12/14 09:38 | 05/14/14 09:00 |
| 480-59805-4 | VESTAL-1-3-EFF-051214 | Water | 05/12/14 09:41 | 05/14/14 09:00 |
| 480-59805-5 | TRIP BLANK | Water | 05/12/14 00:00 | 05/14/14 09:00 |

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Amherst, NY 14203
Phone: 716.691.7600 Fax: 716.691.7551

Regulatory Program: DW NPDES RCRA Other:

| | | | | | | | | | |
|--|--|--|--|----------------------------|--|----------------------------|--|-----------------------------------|--|
| Client Contact | | Project Manager: K. B. SAWYER | | Site Contact: | | Date: 05-12-14 | | COC No: 1 of 1 COCs | |
| Company Name: Acadis | | Tel/Fax: 518-250-7360 | | Lab Contact: C. FOX | | Carrier: | | Sampler: | |
| Address: 855 Route 146 Suite 210 | | Analysis Turnaround Time | | Perform MS / MSD (Y / N) | | Walk-in Client: | | For Lab Use Only: | |
| City/State/Zip: Clifton Park, NY 12065 | | <input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS | | Filtered Sample (Y / N) | | Lab Sampling: | | Job / SDG No.: | |
| Phone: (518) 250-7300 | | TAT if different from Below | | Sample Date | | Sample Time | | Sample Type (C-Comp, G-Grab) | |
| Fax: | | <input type="checkbox"/> 2 weeks <input type="checkbox"/> 1 week <input type="checkbox"/> 2 days <input type="checkbox"/> 1 day | | Sample Date | | Sample Time | | Matrix | |
| Project Name: Vestal Water Supply | | Sample Date | | Sample Time | | Matrix | | # of Cont. | |
| Site: | | Sample Date | | Sample Time | | Matrix | | # of Cont. | |
| PO# 00266401 | | Sample Date | | Sample Time | | Matrix | | # of Cont. | |
| Sample Identification | | Sample Date | | Sample Time | | Matrix | | # of Cont. | |
| Vestal-1-2A-INF-051214 | | 05/12/14 | | 09:30 | | GW | | 3 | |
| Vestal-1-2A-EFF-051214 | | 05/12/14 | | 09:33 | | ↓ | | 3 | |
| Vestal-1-3-INF-051214 | | 05/12/14 | | 09:38 | | ↓ | | 3 | |
| Vestal-1-3-EFF-051214 | | 05/12/14 | | 09:41 | | ↓ | | 3 | |
| Trip Blank | | - | | - | | AG | | 1 | |
| Sample Specific Notes: | | | | | | | | | |
|  480-59805 Chain of Custody | | | | | | | | | |
| Preservation Used: <input type="checkbox"/> Ice, <input type="checkbox"/> HCl, <input type="checkbox"/> H2SO4, <input type="checkbox"/> HNO3, <input type="checkbox"/> NaOH, <input type="checkbox"/> Other: | | | | | | | | | |
| Possible Hazard Identification: Are any samples from a listed EPA Hazardous Waste? Please list any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample. | | | | | | | | | |
| <input type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown | | | | | | | | | |
| Special Instructions/QC Requirements & Comments: | | | | | | | | | |
| Custody Seal No.: Standard IAT | | | | | | | | | |
| Relinquished by: | | Company: | | Date/Time: | | Received by: | | Company: | |
| Amber Deakin | | Acadis | | 05/14/14 9:45 | | John J. Olin | | TA Buff | |
| Relinquished by: | | Company: | | Date/Time: | | Received by: | | Company: | |
| Relinquished by: | | Company: | | Date/Time: | | Received in Laboratory by: | | Company: | |
| Relinquished by: | | Company: | | Date/Time: | | Received in Laboratory by: | | Company: | |

3 2.5



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-59805-1

Login Number: 59805

List Source: TestAmerica Buffalo

List Number: 1

Creator: Robison, Zachary J

| 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. | 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: 480-60714-1

Client Project/Site: Vestal Water Supply RSO

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, New York 12065

Attn: Bruce Nelson



Authorized for release by:

6/9/2014 2:27:03 PM

Candace Fox, Manager of Project Management

(716)504-9844

candace.fox@testamericainc.com

LINKS

Review your project
results through

TotalAccess

Have a Question?



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: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Qualifiers

GC/MS VOA

| Qualifier | Qualifier Description |
|-----------|--|
| J | Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value. |
| E | Result exceeded calibration range. |
| F1 | MS and/or MSD Recovery exceeds the control limits |

Glossary

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

Case Narrative

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Job ID: 480-60714-1

Laboratory: TestAmerica Buffalo

Narrative

Job Narrative 480-60714-1

Comments

No additional comments.

Receipt

The samples were received on 5/28/2014 11:30 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.9° C and 3.3° C.

GC/MS VOA

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: 4009-5-05282014 (480-60714-5), 4009-8-05282014 (480-60714-8). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following sample(s) was diluted to bring the concentration of target analytes within the calibration range: 4009-23D-05282014 (480-60714-23), 4009-25D-05282014 (480-60714-26), 4009-25S-05282014 (480-60714-25), 4009-26-05282014 (480-60714-27), 4009-29I-05282014 (480-60714-33), 4009-29S-05282014 (480-60714-32), 4009-8-05282014 (480-60714-8), DUP-01-05282014 (480-60714-35), DUP-02-05282014 (480-60714-36). Elevated reporting limits (RLs) are provided.

Method(s) 8260C: The following samples were diluted to bring the concentration of target analytes within the calibration range: (480-60714-36 MS), (480-60714-36 MSD), 4009-25D-05282014 (480-60714-26), 4009-26-05282014 (480-60714-27), DUP-02-05282014 (480-60714-36). Elevated reporting limits (RLs) are provided.

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

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-1-05282014

Lab Sample ID: 480-60714-1

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 0.49 | J | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 4.2 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 2.0 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Tetrachloroethene | 0.36 | J | 1.0 | 0.36 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 1.1 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-2-05282014

Lab Sample ID: 480-60714-2

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.3 | | 1.0 | 0.31 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 2.3 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.5 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 3.2 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 12 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 2.7 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.3 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-3-05282014

Lab Sample ID: 480-60714-3

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 6.6 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 1.1 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 4.6 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 65 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 15 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 13 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-4-05282014

Lab Sample ID: 480-60714-4

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 0.39 | J | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.4 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 79 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 1.5 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-5-05282014

Lab Sample ID: 480-60714-5

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|-----|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 3.0 | J | 5.0 | 1.9 | ug/L | 5 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 1.8 | J | 5.0 | 1.5 | ug/L | 5 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 280 | | 5.0 | 4.1 | ug/L | 5 | | 8260C | Total/NA |
| Methylene Chloride | 4.6 | J | 5.0 | 2.2 | ug/L | 5 | | 8260C | Total/NA |
| Trichloroethene | 19 | | 5.0 | 2.3 | ug/L | 5 | | 8260C | Total/NA |
| Vinyl chloride | 41 | | 5.0 | 4.5 | ug/L | 5 | | 8260C | Total/NA |

Client Sample ID: 4009-6-05282014

Lab Sample ID: 480-60714-6

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Methyl tert-butyl ether | 0.27 | J | 1.0 | 0.16 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.61 | J | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-7-05282014

Lab Sample ID: 480-60714-7

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 0.48 | J | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 0.29 | J | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| 2-Butanone (MEK) | 1.4 | J | 10 | 1.3 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 7.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Chloroethane | 0.34 | J | 1.0 | 0.32 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 46 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 4.1 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 3.1 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 1000 | E | 10 | 8.2 | ug/L | 10 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | | 10 | 3.1 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 59 | | 10 | 3.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 110 | | 10 | 2.9 | ug/L | 10 | | 8260C | Total/NA |
| Benzene | 5.0 | J | 10 | 4.1 | ug/L | 10 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 300 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Methylene Chloride | 11 | | 10 | 4.4 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride | 130 | | 10 | 9.0 | ug/L | 10 | | 8260C | Total/NA |
| 1,1,1-Trichloroethane - DL | 1000 | | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane - DL | 13 | J | 20 | 6.2 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethane - DL | 62 | | 20 | 7.6 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethene - DL | 120 | | 20 | 5.8 | ug/L | 20 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 310 | | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| Vinyl chloride - DL | 140 | | 20 | 18 | ug/L | 20 | | 8260C | Total/NA |

Client Sample ID: 4009-9-05282014

Lab Sample ID: 480-60714-9

| 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 |
| cis-1,2-Dichloroethene | 4.0 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 0.66 | J | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-10-05282014

Lab Sample ID: 480-60714-10

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 3.2 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 0.53 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-11-05282014

Lab Sample ID: 480-60714-11

| 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 |

Client Sample ID: 4009-11A-05282014

Lab Sample ID: 480-60714-12

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

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-12-05282014

Lab Sample ID: 480-60714-13

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 43 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | | 1.0 | 0.31 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 6.5 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 6.1 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.8 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 9.5 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.84 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 18 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 3.7 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-12A-05282014

Lab Sample ID: 480-60714-14

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 7.8 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 1.3 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.9 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Chloroethane | 7.5 | | 1.0 | 0.32 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 18 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.55 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 2.2 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-13-05282014

Lab Sample ID: 480-60714-15

| 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 | 0.42 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 3.7 | | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-13A-05282014

Lab Sample ID: 480-60714-16

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Benzene | 0.58 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-14-05282014

Lab Sample ID: 480-60714-17

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 4.3 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.91 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-15-05282014

Lab Sample ID: 480-60714-18

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 0.53 | J | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 2-Butanone (MEK) | 1.3 | J | 10 | 1.3 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 5.1 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 0.56 | J | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-16-05282014

Lab Sample ID: 480-60714-19

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-16-05282014 (Continued)

Lab Sample ID: 480-60714-19

| 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 |

Client Sample ID: 4009-16A-05282014

Lab Sample ID: 480-60714-20

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Acetone | 4.0 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.9 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-22-05282014

Lab Sample ID: 480-60714-21

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Benzene | 0.92 | J | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| Toluene | 1.1 | | 1.0 | 0.51 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-23S-05282014

Lab Sample ID: 480-60714-22

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethane | 4.4 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,3-Trimethylbenzene | 0.38 | J | 1.0 | 0.26 | ug/L | 1 | | 8260C | Total/NA |
| 1,2,4-Trimethylbenzene | 2.0 | | 1.0 | 0.75 | ug/L | 1 | | 8260C | Total/NA |
| 1,3,5-Trimethylbenzene | 1.2 | | 1.0 | 0.77 | ug/L | 1 | | 8260C | Total/NA |
| Benzene | 1.8 | | 1.0 | 0.41 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 2.2 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Cyclohexane | 0.61 | J | 1.0 | 0.18 | ug/L | 1 | | 8260C | Total/NA |
| Ethylbenzene | 0.83 | J | 1.0 | 0.74 | ug/L | 1 | | 8260C | Total/NA |
| Isopropylbenzene | 3.6 | | 1.0 | 0.79 | ug/L | 1 | | 8260C | Total/NA |
| Methylcyclohexane | 0.53 | J | 1.0 | 0.16 | ug/L | 1 | | 8260C | Total/NA |
| trans-1,2-Dichloroethene | 2.8 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 1.6 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 1.1 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-23D-05282014

Lab Sample ID: 480-60714-23

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 720 | | 10 | 8.2 | ug/L | 10 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 18 | | 10 | 3.1 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 420 | | 10 | 3.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 78 | | 10 | 2.9 | ug/L | 10 | | 8260C | Total/NA |
| Chloroethane | 11 | | 10 | 3.2 | ug/L | 10 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 450 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Trichloroethene | 8.3 | J | 10 | 4.6 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride | 440 | | 10 | 9.0 | ug/L | 10 | | 8260C | Total/NA |

Client Sample ID: 4009-24-05282014

Lab Sample ID: 480-60714-24

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

Client Sample ID: 4009-25S-05282014

Lab Sample ID: 480-60714-25

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-25S-05282014 (Continued)

Lab Sample ID: 480-60714-25

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 3300 | | 40 | 33 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 140 | | 40 | 15 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 410 | | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 210 | | 40 | 32 | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: 4009-25D-05282014

Lab Sample ID: 480-60714-26

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 2700 | E | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 120 | | 20 | 7.6 | ug/L | 20 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 330 | | 20 | 5.8 | ug/L | 20 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 110 | | 20 | 16 | ug/L | 20 | | 8260C | Total/NA |
| Trichloroethene | 10 | J | 20 | 9.2 | ug/L | 20 | | 8260C | Total/NA |
| 1,1,1-Trichloroethane - DL | 3300 | | 40 | 33 | ug/L | 40 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane - DL | 22 | J | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethane - DL | 140 | | 40 | 15 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethene - DL | 390 | | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 140 | | 40 | 32 | ug/L | 40 | | 8260C | Total/NA |
| Methylene Chloride - DL | 50 | | 40 | 18 | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: 4009-26-05282014

Lab Sample ID: 480-60714-27

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 420 | E | 2.0 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 15 | | 2.0 | 0.62 | ug/L | 2 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 46 | | 2.0 | 0.76 | ug/L | 2 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 42 | | 2.0 | 0.58 | ug/L | 2 | | 8260C | Total/NA |
| Benzene | 1.4 | J | 2.0 | 0.82 | ug/L | 2 | | 8260C | Total/NA |
| Chloroethane | 3.3 | | 2.0 | 0.64 | ug/L | 2 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 210 | E | 2.0 | 1.6 | ug/L | 2 | | 8260C | Total/NA |
| Tetrachloroethene | 1.5 | J | 2.0 | 0.72 | ug/L | 2 | | 8260C | Total/NA |
| Trichloroethene | 79 | | 2.0 | 0.92 | ug/L | 2 | | 8260C | Total/NA |
| Vinyl chloride | 22 | | 2.0 | 1.8 | ug/L | 2 | | 8260C | Total/NA |
| 1,1,1-Trichloroethane - DL | 370 | | 8.0 | 6.6 | ug/L | 8 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane - DL | 13 | | 8.0 | 2.5 | ug/L | 8 | | 8260C | Total/NA |
| 1,1-Dichloroethane - DL | 39 | | 8.0 | 3.0 | ug/L | 8 | | 8260C | Total/NA |
| 1,1-Dichloroethene - DL | 46 | | 8.0 | 2.3 | ug/L | 8 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 190 | | 8.0 | 6.5 | ug/L | 8 | | 8260C | Total/NA |
| Dichlorodifluoromethane - DL | 5.8 | J | 8.0 | 5.4 | ug/L | 8 | | 8260C | Total/NA |
| Methylene Chloride - DL | 8.4 | | 8.0 | 3.5 | ug/L | 8 | | 8260C | Total/NA |
| Trichloroethene - DL | 71 | | 8.0 | 3.7 | ug/L | 8 | | 8260C | Total/NA |
| Vinyl chloride - DL | 21 | | 8.0 | 7.2 | ug/L | 8 | | 8260C | Total/NA |

Client Sample ID: 4009-27S-05282014

Lab Sample ID: 480-60714-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 61 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.4 | | 1.0 | 0.31 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 2.2 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-27S-05282014 (Continued)

Lab Sample ID: 480-60714-28

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1-Dichloroethene | 8.9 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| 1,2-Dichloroethane | 0.87 | J | 1.0 | 0.21 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.8 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 20 | | 1.0 | 0.81 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 28 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-27I-05282014

Lab Sample ID: 480-60714-29

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.37 | J | 1.0 | 0.31 | ug/L | 1 | | 8260C | Total/NA |
| Trichloroethene | 1.1 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-27D-05282014

Lab Sample ID: 480-60714-30

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

Client Sample ID: 4009-28-05282014

Lab Sample ID: 480-60714-31

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|-----------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 2.7 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 0.31 | J | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |
| Acetone | 3.7 | J | 10 | 3.0 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: 4009-29S-05282014

Lab Sample ID: 480-60714-32

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 650 | | 10 | 8.2 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 35 | | 10 | 3.8 | ug/L | 10 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 89 | | 10 | 2.9 | ug/L | 10 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 340 | | 10 | 8.1 | ug/L | 10 | | 8260C | Total/NA |
| Vinyl chloride | 15 | | 10 | 9.0 | ug/L | 10 | | 8260C | Total/NA |

Client Sample ID: 4009-29I-05282014

Lab Sample ID: 480-60714-33

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 1600 | | 25 | 21 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 96 | | 25 | 9.5 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 230 | | 25 | 7.3 | ug/L | 25 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 400 | | 25 | 20 | ug/L | 25 | | 8260C | Total/NA |
| Trichloroethene | 460 | | 25 | 12 | ug/L | 25 | | 8260C | Total/NA |
| Vinyl chloride | 85 | | 25 | 23 | ug/L | 25 | | 8260C | Total/NA |

Client Sample ID: 4009-29D-05282014

Lab Sample ID: 480-60714-34

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|---------------------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 80 | | 1.0 | 0.82 | ug/L | 1 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.1 | | 1.0 | 0.31 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 16 | | 1.0 | 0.38 | ug/L | 1 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 12 | | 1.0 | 0.29 | ug/L | 1 | | 8260C | Total/NA |

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-29D-05282014 (Continued)

Lab Sample ID: 480-60714-34

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|-----|------|------|---------|---|--------|-----------|
| Chloroethane | 1.4 | | 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 | 17 | | 1.0 | 0.46 | ug/L | 1 | | 8260C | Total/NA |
| Vinyl chloride | 12 | | 1.0 | 0.90 | ug/L | 1 | | 8260C | Total/NA |

Client Sample ID: DUP-01-05282014

Lab Sample ID: 480-60714-35

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|------------------------|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 1500 | | 25 | 21 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 89 | | 25 | 9.5 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 230 | | 25 | 7.3 | ug/L | 25 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 380 | | 25 | 20 | ug/L | 25 | | 8260C | Total/NA |
| Trichloroethene | 430 | | 25 | 12 | ug/L | 25 | | 8260C | Total/NA |
| Vinyl chloride | 78 | | 25 | 23 | ug/L | 25 | | 8260C | Total/NA |

Client Sample ID: DUP-02-05282014

Lab Sample ID: 480-60714-36

| Analyte | Result | Qualifier | RL | MDL | Unit | Dil Fac | D | Method | Prep Type |
|--|--------|-----------|----|-----|------|---------|---|--------|-----------|
| 1,1,1-Trichloroethane | 2800 | E | 25 | 21 | ug/L | 25 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 16 | J | 25 | 7.8 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethane | 110 | | 25 | 9.5 | ug/L | 25 | | 8260C | Total/NA |
| 1,1-Dichloroethene | 330 | | 25 | 7.3 | ug/L | 25 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene | 140 | | 25 | 20 | ug/L | 25 | | 8260C | Total/NA |
| 1,1,1-Trichloroethane - DL | 3200 | | 40 | 33 | ug/L | 40 | | 8260C | Total/NA |
| 1,1,2-Trichloro-1,2,2-trifluoroethane - DL | 20 | J | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethane - DL | 150 | | 40 | 15 | ug/L | 40 | | 8260C | Total/NA |
| 1,1-Dichloroethene - DL | 400 | | 40 | 12 | ug/L | 40 | | 8260C | Total/NA |
| cis-1,2-Dichloroethene - DL | 130 | | 40 | 32 | ug/L | 40 | | 8260C | Total/NA |
| Methylene Chloride - DL | 50 | | 40 | 18 | ug/L | 40 | | 8260C | Total/NA |

Client Sample ID: FB-01-05282014

Lab Sample ID: 480-60714-37

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

Client Sample ID: TB-01-05282014

Lab Sample ID: 480-60714-38

No Detections.

Client Sample ID: TB-02-05282014

Lab Sample ID: 480-60714-39

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-1-05282014

Lab Sample ID: 480-60714-1

Date Collected: 05/28/14 15:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,1-Dichloroethane | 0.49 | J | 1.0 | 0.38 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 00:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 00:10 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 00:10 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 00:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 00:10 | 1 |
| Acetone | 4.2 | J | 10 | 3.0 | ug/L | | | 06/02/14 00:10 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:10 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 00:10 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 00:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 00:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:10 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 00:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 00:10 | 1 |
| cis-1,2-Dichloroethene | 2.0 | | 1.0 | 0.81 | ug/L | | | 06/02/14 00:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 00:10 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 00:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 00:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 00:10 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:10 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 00:10 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:10 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 00:10 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:10 | 1 |
| Tetrachloroethene | 0.36 | J | 1.0 | 0.36 | ug/L | | | 06/02/14 00:10 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 00:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 00:10 | 1 |
| Trichloroethene | 1.1 | | 1.0 | 0.46 | ug/L | | | 06/02/14 00:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 00:10 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-1-05282014

Lab Sample ID: 480-60714-1

Date Collected: 05/28/14 15:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:10 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 00:10 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 00:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 06/02/14 00:10 | 1 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | | | | 06/02/14 00:10 | 1 |

Client Sample ID: 4009-2-05282014

Lab Sample ID: 480-60714-2

Date Collected: 05/28/14 14:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.3 | | 1.0 | 0.31 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,1-Dichloroethane | 2.3 | | 1.0 | 0.38 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 00:32 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 00:32 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 00:32 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 00:32 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 00:32 | 1 |
| Acetone | 3.5 J | | 10 | 3.0 | ug/L | | | 06/02/14 00:32 | 1 |
| Benzene | 3.2 | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:32 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:32 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:32 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 00:32 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 00:32 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 00:32 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:32 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:32 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 00:32 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 00:32 | 1 |
| cis-1,2-Dichloroethene | 12 | | 1.0 | 0.81 | ug/L | | | 06/02/14 00:32 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 00:32 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 00:32 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:32 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-2-05282014

Lab Sample ID: 480-60714-2

Date Collected: 05/28/14 14:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 00:32 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 00:32 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:32 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 00:32 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:32 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:32 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 00:32 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:32 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 00:32 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 00:32 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:32 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 00:32 | 1 |
| Trichloroethene | 2.7 | | 1.0 | 0.46 | ug/L | | | 06/02/14 00:32 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 00:32 | 1 |
| Vinyl chloride | 1.3 | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:32 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 00:32 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 117 | | 66 - 137 | | | | | 06/02/14 00:32 | 1 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 | | | | | 06/02/14 00:32 | 1 |
| Toluene-d8 (Surr) | 114 | | 71 - 126 | | | | | 06/02/14 00:32 | 1 |

Client Sample ID: 4009-3-05282014

Lab Sample ID: 480-60714-3

Date Collected: 05/28/14 14:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,1-Dichloroethane | 6.6 | | 1.0 | 0.38 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,1-Dichloroethene | 1.1 | | 1.0 | 0.29 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 00:54 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 00:54 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 00:54 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 00:54 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 00:54 | 1 |
| Acetone | 4.6 J | | 10 | 3.0 | ug/L | | | 06/02/14 00:54 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 00:54 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-3-05282014

Lab Sample ID: 480-60714-3

Date Collected: 05/28/14 14:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-----------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 00:54 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 00:54 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 00:54 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 00:54 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 00:54 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 00:54 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:54 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 00:54 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 00:54 | 1 |
| cis-1,2-Dichloroethene | 65 | | 1.0 | 0.81 | ug/L | | | 06/02/14 00:54 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 00:54 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 00:54 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 00:54 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 00:54 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 00:54 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 00:54 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 00:54 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:54 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 00:54 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 00:54 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 00:54 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 00:54 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 00:54 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:54 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 00:54 | 1 |
| Trichloroethene | 15 | | 1.0 | 0.46 | ug/L | | | 06/02/14 00:54 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 00:54 | 1 |
| Vinyl chloride | 13 | | 1.0 | 0.90 | ug/L | | | 06/02/14 00:54 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 00:54 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | 06/02/14 00:54 | 1 |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 | | 06/02/14 00:54 | 1 |
| Toluene-d8 (Surr) | 110 | | 71 - 126 | | 06/02/14 00:54 | 1 |

Client Sample ID: 4009-4-05282014

Lab Sample ID: 480-60714-4

Date Collected: 05/28/14 14:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,1-Dichloroethane | 0.39 | J | 1.0 | 0.38 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 01:15 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-4-05282014

Lab Sample ID: 480-60714-4

Date Collected: 05/28/14 14:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 01:15 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 01:15 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 01:15 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 01:15 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 01:15 | 1 |
| Acetone | 3.4 | J | 10 | 3.0 | ug/L | | | 06/02/14 01:15 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 01:15 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 01:15 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 01:15 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 01:15 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 01:15 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 01:15 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 01:15 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 01:15 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 01:15 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 01:15 | 1 |
| cis-1,2-Dichloroethene | 79 | | 1.0 | 0.81 | ug/L | | | 06/02/14 01:15 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 01:15 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 01:15 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 01:15 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 01:15 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 01:15 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 01:15 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 01:15 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 01:15 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 01:15 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 01:15 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 01:15 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 01:15 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 01:15 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 01:15 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 01:15 | 1 |
| Trichloroethene | 1.5 | | 1.0 | 0.46 | ug/L | | | 06/02/14 01:15 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 01:15 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 01:15 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 01:15 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 01:15 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 06/02/14 01:15 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 01:15 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-5-05282014

Lab Sample ID: 480-60714-5

Date Collected: 05/28/14 15:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 5.0 | 4.1 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,1,2,2-Tetrachloroethane | ND | | 5.0 | 1.1 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 5.0 | 1.6 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,1,2-Trichloroethane | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,1-Dichloroethane | 3.0 | J | 5.0 | 1.9 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,1-Dichloroethene | 1.8 | J | 5.0 | 1.5 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2,3-Trimethylbenzene | ND | | 5.0 | 1.3 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2,4-Trichlorobenzene | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2,4-Trimethylbenzene | ND | | 5.0 | 3.8 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2-Dibromo-3-Chloropropane | ND | | 5.0 | 2.0 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2-Dibromoethane | ND | | 5.0 | 3.7 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2-Dichlorobenzene | ND | | 5.0 | 4.0 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2-Dichloroethane | ND | | 5.0 | 1.1 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,2-Dichloropropane | ND | | 5.0 | 3.6 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,3,5-Trimethylbenzene | ND | | 5.0 | 3.9 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,3-Dichlorobenzene | ND | | 5.0 | 3.9 | ug/L | | | 06/02/14 01:37 | 5 |
| 1,4-Dichlorobenzene | ND | | 5.0 | 4.2 | ug/L | | | 06/02/14 01:37 | 5 |
| 2-Butanone (MEK) | ND | | 50 | 6.6 | ug/L | | | 06/02/14 01:37 | 5 |
| 2-Hexanone | ND | | 25 | 6.2 | ug/L | | | 06/02/14 01:37 | 5 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 25 | 11 | ug/L | | | 06/02/14 01:37 | 5 |
| Acetone | ND | | 50 | 15 | ug/L | | | 06/02/14 01:37 | 5 |
| Benzene | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 01:37 | 5 |
| Bromodichloromethane | ND | | 5.0 | 2.0 | ug/L | | | 06/02/14 01:37 | 5 |
| Bromoform | ND | | 5.0 | 1.3 | ug/L | | | 06/02/14 01:37 | 5 |
| Bromomethane | ND | | 5.0 | 3.5 | ug/L | | | 06/02/14 01:37 | 5 |
| Carbon disulfide | ND | | 5.0 | 0.95 | ug/L | | | 06/02/14 01:37 | 5 |
| Carbon tetrachloride | ND | | 5.0 | 1.4 | ug/L | | | 06/02/14 01:37 | 5 |
| Chlorobenzene | ND | | 5.0 | 3.8 | ug/L | | | 06/02/14 01:37 | 5 |
| Chloroethane | ND | | 5.0 | 1.6 | ug/L | | | 06/02/14 01:37 | 5 |
| Chloroform | ND | | 5.0 | 1.7 | ug/L | | | 06/02/14 01:37 | 5 |
| Chloromethane | ND | | 5.0 | 1.8 | ug/L | | | 06/02/14 01:37 | 5 |
| cis-1,2-Dichloroethene | 280 | | 5.0 | 4.1 | ug/L | | | 06/02/14 01:37 | 5 |
| cis-1,3-Dichloropropene | ND | | 5.0 | 1.8 | ug/L | | | 06/02/14 01:37 | 5 |
| Cyclohexane | ND | | 5.0 | 0.90 | ug/L | | | 06/02/14 01:37 | 5 |
| Dibromochloromethane | ND | | 5.0 | 1.6 | ug/L | | | 06/02/14 01:37 | 5 |
| Dichlorodifluoromethane | ND | | 5.0 | 3.4 | ug/L | | | 06/02/14 01:37 | 5 |
| Ethylbenzene | ND | | 5.0 | 3.7 | ug/L | | | 06/02/14 01:37 | 5 |
| Isopropylbenzene | ND | | 5.0 | 4.0 | ug/L | | | 06/02/14 01:37 | 5 |
| Methyl acetate | ND | | 13 | 2.5 | ug/L | | | 06/02/14 01:37 | 5 |
| Methyl tert-butyl ether | ND | | 5.0 | 0.80 | ug/L | | | 06/02/14 01:37 | 5 |
| Methylcyclohexane | ND | | 5.0 | 0.80 | ug/L | | | 06/02/14 01:37 | 5 |
| Methylene Chloride | 4.6 | J | 5.0 | 2.2 | ug/L | | | 06/02/14 01:37 | 5 |
| Styrene | ND | | 5.0 | 3.7 | ug/L | | | 06/02/14 01:37 | 5 |
| Tetrachloroethene | ND | | 5.0 | 1.8 | ug/L | | | 06/02/14 01:37 | 5 |
| Toluene | ND | | 5.0 | 2.6 | ug/L | | | 06/02/14 01:37 | 5 |
| trans-1,2-Dichloroethene | ND | | 5.0 | 4.5 | ug/L | | | 06/02/14 01:37 | 5 |
| trans-1,3-Dichloropropene | ND | | 5.0 | 1.9 | ug/L | | | 06/02/14 01:37 | 5 |
| Trichloroethene | 19 | | 5.0 | 2.3 | ug/L | | | 06/02/14 01:37 | 5 |
| Trichlorofluoromethane | ND | | 5.0 | 4.4 | ug/L | | | 06/02/14 01:37 | 5 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-5-05282014

Lab Sample ID: 480-60714-5

Date Collected: 05/28/14 15:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Vinyl chloride | 41 | | 5.0 | 4.5 | ug/L | | | 06/02/14 01:37 | 5 |
| Xylenes, Total | ND | | 10 | 3.3 | ug/L | | | 06/02/14 01:37 | 5 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 01:37 | 5 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 01:37 | 5 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | | | | 06/02/14 01:37 | 5 |

Client Sample ID: 4009-6-05282014

Lab Sample ID: 480-60714-6

Date Collected: 05/28/14 14:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 01:58 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 01:58 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 01:58 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 01:58 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 01:58 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 01:58 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 01:58 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 01:58 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 01:58 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 01:58 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 01:58 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 01:58 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 01:58 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 01:58 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 01:58 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 01:58 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 01:58 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 01:58 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 01:58 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 01:58 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 01:58 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-6-05282014

Lab Sample ID: 480-60714-6

Date Collected: 05/28/14 14:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 01:58 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 01:58 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 01:58 | 1 |
| Methyl tert-butyl ether | 0.27 | J | 1.0 | 0.16 | ug/L | | | 06/02/14 01:58 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 01:58 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 01:58 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 01:58 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 01:58 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 01:58 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 01:58 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 01:58 | 1 |
| Trichloroethene | 0.61 | J | 1.0 | 0.46 | ug/L | | | 06/02/14 01:58 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 01:58 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 01:58 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 01:58 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 01:58 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 01:58 | 1 |
| Toluene-d8 (Surr) | 104 | | 71 - 126 | | | | | 06/02/14 01:58 | 1 |

Client Sample ID: 4009-7-05282014

Lab Sample ID: 480-60714-7

Date Collected: 05/28/14 15:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,1-Dichloroethane | 0.48 | J | 1.0 | 0.38 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,1-Dichloroethene | 0.29 | J | 1.0 | 0.29 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 02:19 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 02:19 | 1 |
| 2-Butanone (MEK) | 1.4 | J | 10 | 1.3 | ug/L | | | 06/02/14 02:19 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 02:19 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 02:19 | 1 |
| Acetone | 7.1 | J | 10 | 3.0 | ug/L | | | 06/02/14 02:19 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 02:19 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 02:19 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-7-05282014

Lab Sample ID: 480-60714-7

Date Collected: 05/28/14 15:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 02:19 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 02:19 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 02:19 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 02:19 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 02:19 | 1 |
| Chloroethane | 0.34 | J | 1.0 | 0.32 | ug/L | | | 06/02/14 02:19 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 02:19 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 02:19 | 1 |
| cis-1,2-Dichloroethene | 46 | | 1.0 | 0.81 | ug/L | | | 06/02/14 02:19 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 02:19 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 02:19 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 02:19 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 02:19 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 02:19 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 02:19 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 02:19 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 02:19 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 02:19 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 02:19 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 02:19 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 02:19 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 02:19 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 02:19 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 02:19 | 1 |
| Trichloroethene | 4.1 | | 1.0 | 0.46 | ug/L | | | 06/02/14 02:19 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 02:19 | 1 |
| Vinyl chloride | 3.1 | | 1.0 | 0.90 | ug/L | | | 06/02/14 02:19 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 02:19 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 02:19 | 1 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 06/02/14 02:19 | 1 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | | | | 06/02/14 02:19 | 1 |

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

Date Collected: 05/28/14 13:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1000 | E | 10 | 8.2 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 11 | | 10 | 3.1 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,1,2-Trichloroethane | ND | | 10 | 2.3 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,1-Dichloroethane | 59 | | 10 | 3.8 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,1-Dichloroethene | 110 | | 10 | 2.9 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2,3-Trimethylbenzene | ND | | 10 | 2.6 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2,4-Trichlorobenzene | ND | | 10 | 4.1 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2,4-Trimethylbenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 02:41 | 10 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

Date Collected: 05/28/14 13:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2-Dibromoethane | ND | | 10 | 7.3 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2-Dichlorobenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2-Dichloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,2-Dichloropropane | ND | | 10 | 7.2 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,3,5-Trimethylbenzene | ND | | 10 | 7.7 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,3-Dichlorobenzene | ND | | 10 | 7.8 | ug/L | | | 06/02/14 02:41 | 10 |
| 1,4-Dichlorobenzene | ND | | 10 | 8.4 | ug/L | | | 06/02/14 02:41 | 10 |
| 2-Butanone (MEK) | ND | | 100 | 13 | ug/L | | | 06/02/14 02:41 | 10 |
| 2-Hexanone | ND | | 50 | 12 | ug/L | | | 06/02/14 02:41 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 21 | ug/L | | | 06/02/14 02:41 | 10 |
| Acetone | ND | | 100 | 30 | ug/L | | | 06/02/14 02:41 | 10 |
| Benzene | 5.0 | J | 10 | 4.1 | ug/L | | | 06/02/14 02:41 | 10 |
| Bromodichloromethane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 02:41 | 10 |
| Bromoform | ND | | 10 | 2.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Bromomethane | ND | | 10 | 6.9 | ug/L | | | 06/02/14 02:41 | 10 |
| Carbon disulfide | ND | | 10 | 1.9 | ug/L | | | 06/02/14 02:41 | 10 |
| Carbon tetrachloride | ND | | 10 | 2.7 | ug/L | | | 06/02/14 02:41 | 10 |
| Chlorobenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 02:41 | 10 |
| Chloroethane | ND | | 10 | 3.2 | ug/L | | | 06/02/14 02:41 | 10 |
| Chloroform | ND | | 10 | 3.4 | ug/L | | | 06/02/14 02:41 | 10 |
| Chloromethane | ND | | 10 | 3.5 | ug/L | | | 06/02/14 02:41 | 10 |
| cis-1,2-Dichloroethene | 300 | | 10 | 8.1 | ug/L | | | 06/02/14 02:41 | 10 |
| cis-1,3-Dichloropropene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Cyclohexane | ND | | 10 | 1.8 | ug/L | | | 06/02/14 02:41 | 10 |
| Dibromochloromethane | ND | | 10 | 3.2 | ug/L | | | 06/02/14 02:41 | 10 |
| Dichlorodifluoromethane | ND | | 10 | 6.8 | ug/L | | | 06/02/14 02:41 | 10 |
| Ethylbenzene | ND | | 10 | 7.4 | ug/L | | | 06/02/14 02:41 | 10 |
| Isopropylbenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 02:41 | 10 |
| Methyl acetate | ND | | 25 | 5.0 | ug/L | | | 06/02/14 02:41 | 10 |
| Methyl tert-butyl ether | ND | | 10 | 1.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Methylcyclohexane | ND | | 10 | 1.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Methylene Chloride | 11 | | 10 | 4.4 | ug/L | | | 06/02/14 02:41 | 10 |
| Styrene | ND | | 10 | 7.3 | ug/L | | | 06/02/14 02:41 | 10 |
| Tetrachloroethene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Toluene | ND | | 10 | 5.1 | ug/L | | | 06/02/14 02:41 | 10 |
| trans-1,2-Dichloroethene | ND | | 10 | 9.0 | ug/L | | | 06/02/14 02:41 | 10 |
| trans-1,3-Dichloropropene | ND | | 10 | 3.7 | ug/L | | | 06/02/14 02:41 | 10 |
| Trichloroethene | ND | | 10 | 4.6 | ug/L | | | 06/02/14 02:41 | 10 |
| Trichlorofluoromethane | ND | | 10 | 8.8 | ug/L | | | 06/02/14 02:41 | 10 |
| Vinyl chloride | 130 | | 10 | 9.0 | ug/L | | | 06/02/14 02:41 | 10 |
| Xylenes, Total | ND | | 20 | 6.6 | ug/L | | | 06/02/14 02:41 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | 06/02/14 02:41 | 10 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | 06/02/14 02:41 | 10 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | 06/02/14 02:41 | 10 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

Date Collected: 05/28/14 13:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1000 | | 20 | 16 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,1,2,2-Tetrachloroethane | ND | | 20 | 4.2 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 13 | J | 20 | 6.2 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,1,2-Trichloroethane | ND | | 20 | 4.6 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,1-Dichloroethane | 62 | | 20 | 7.6 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,1-Dichloroethene | 120 | | 20 | 5.8 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2,3-Trimethylbenzene | ND | | 20 | 5.2 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 20 | 8.2 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 20 | 7.8 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2-Dibromoethane | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2-Dichloroethane | ND | | 20 | 4.2 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,2-Dichloropropane | ND | | 20 | 14 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,3-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 12:44 | 20 |
| 1,4-Dichlorobenzene | ND | | 20 | 17 | ug/L | | | 06/02/14 12:44 | 20 |
| 2-Butanone (MEK) | ND | | 200 | 26 | ug/L | | | 06/02/14 12:44 | 20 |
| 2-Hexanone | ND | | 100 | 25 | ug/L | | | 06/02/14 12:44 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 100 | 42 | ug/L | | | 06/02/14 12:44 | 20 |
| Acetone | ND | | 200 | 60 | ug/L | | | 06/02/14 12:44 | 20 |
| Benzene | ND | | 20 | 8.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Bromodichloromethane | ND | | 20 | 7.8 | ug/L | | | 06/02/14 12:44 | 20 |
| Bromoform | ND | | 20 | 5.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Bromomethane | ND | | 20 | 14 | ug/L | | | 06/02/14 12:44 | 20 |
| Carbon disulfide | ND | | 20 | 3.8 | ug/L | | | 06/02/14 12:44 | 20 |
| Carbon tetrachloride | ND | | 20 | 5.4 | ug/L | | | 06/02/14 12:44 | 20 |
| Chlorobenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| Chloroethane | ND | | 20 | 6.4 | ug/L | | | 06/02/14 12:44 | 20 |
| Chloroform | ND | | 20 | 6.8 | ug/L | | | 06/02/14 12:44 | 20 |
| Chloromethane | ND | | 20 | 7.0 | ug/L | | | 06/02/14 12:44 | 20 |
| cis-1,2-Dichloroethene | 310 | | 20 | 16 | ug/L | | | 06/02/14 12:44 | 20 |
| cis-1,3-Dichloropropene | ND | | 20 | 7.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Cyclohexane | ND | | 20 | 3.6 | ug/L | | | 06/02/14 12:44 | 20 |
| Dibromochloromethane | ND | | 20 | 6.4 | ug/L | | | 06/02/14 12:44 | 20 |
| Dichlorodifluoromethane | ND | | 20 | 14 | ug/L | | | 06/02/14 12:44 | 20 |
| Ethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| Isopropylbenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 12:44 | 20 |
| Methyl acetate | ND | | 50 | 10 | ug/L | | | 06/02/14 12:44 | 20 |
| Methyl tert-butyl ether | ND | | 20 | 3.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Methylcyclohexane | ND | | 20 | 3.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Methylene Chloride | ND | | 20 | 8.8 | ug/L | | | 06/02/14 12:44 | 20 |
| Styrene | ND | | 20 | 15 | ug/L | | | 06/02/14 12:44 | 20 |
| Tetrachloroethene | ND | | 20 | 7.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Toluene | ND | | 20 | 10 | ug/L | | | 06/02/14 12:44 | 20 |
| trans-1,2-Dichloroethene | ND | | 20 | 18 | ug/L | | | 06/02/14 12:44 | 20 |
| trans-1,3-Dichloropropene | ND | | 20 | 7.4 | ug/L | | | 06/02/14 12:44 | 20 |
| Trichloroethene | ND | | 20 | 9.2 | ug/L | | | 06/02/14 12:44 | 20 |
| Trichlorofluoromethane | ND | | 20 | 18 | ug/L | | | 06/02/14 12:44 | 20 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

Date Collected: 05/28/14 13:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Vinyl chloride | 140 | | 20 | 18 | ug/L | | | 06/02/14 12:44 | 20 |
| Xylenes, Total | ND | | 40 | 13 | ug/L | | | 06/02/14 12:44 | 20 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 12:44 | 20 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 12:44 | 20 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 12:44 | 20 |

Client Sample ID: 4009-9-05282014

Lab Sample ID: 480-60714-9

Date Collected: 05/28/14 13:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 03:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 03:02 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 03:02 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 03:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 03:02 | 1 |
| Acetone | 3.3 | J | 10 | 3.0 | ug/L | | | 06/02/14 03:02 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 03:02 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:02 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:02 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 03:02 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 03:02 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 03:02 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:02 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:02 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 03:02 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 03:02 | 1 |
| cis-1,2-Dichloroethene | 4.0 | | 1.0 | 0.81 | ug/L | | | 06/02/14 03:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:02 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 03:02 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:02 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 03:02 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-9-05282014

Lab Sample ID: 480-60714-9

Date Collected: 05/28/14 13:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 03:02 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:02 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 03:02 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:02 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:02 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 03:02 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:02 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:02 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 03:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 03:02 | 1 |
| Trichloroethene | 0.66 | J | 1.0 | 0.46 | ug/L | | | 06/02/14 03:02 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 03:02 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:02 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 03:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | | | | 06/02/14 03:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 03:02 | 1 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | | | | 06/02/14 03:02 | 1 |

Client Sample ID: 4009-10-05282014

Lab Sample ID: 480-60714-10

Date Collected: 05/28/14 13:25

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 03:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 03:24 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 03:24 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 03:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 03:24 | 1 |
| Acetone | 3.2 | J | 10 | 3.0 | ug/L | | | 06/02/14 03:24 | 1 |
| Benzene | 0.53 | J | 1.0 | 0.41 | ug/L | | | 06/02/14 03:24 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:24 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-10-05282014

Lab Sample ID: 480-60714-10

Date Collected: 05/28/14 13:25

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:24 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 03:24 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 03:24 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 03:24 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:24 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:24 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 03:24 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 03:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 03:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:24 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 03:24 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:24 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 03:24 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 03:24 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:24 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 03:24 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:24 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:24 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 03:24 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:24 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:24 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 03:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 03:24 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 03:24 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 03:24 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:24 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 03:24 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 03:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 03:24 | 1 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | | | | 06/02/14 03:24 | 1 |

Client Sample ID: 4009-11-05282014

Lab Sample ID: 480-60714-11

Date Collected: 05/28/14 13:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:46 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-11-05282014

Lab Sample ID: 480-60714-11

Date Collected: 05/28/14 13:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 03:46 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 03:46 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 03:46 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 03:46 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 03:46 | 1 |
| Acetone | 4.6 | J | 10 | 3.0 | ug/L | | | 06/02/14 03:46 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 03:46 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 03:46 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 03:46 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 03:46 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 03:46 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 03:46 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 03:46 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:46 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 03:46 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 03:46 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 03:46 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:46 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 03:46 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 03:46 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 03:46 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 03:46 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 03:46 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 03:46 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:46 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 03:46 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 03:46 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 03:46 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 03:46 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 03:46 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:46 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 03:46 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 03:46 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 03:46 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 03:46 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 03:46 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | | | | 06/02/14 03:46 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 03:46 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 03:46 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-11A-05282014

Lab Sample ID: 480-60714-12

Date Collected: 05/28/14 13:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 04:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 04:07 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 04:07 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 04:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 04:07 | 1 |
| Acetone | 4.1 | J | 10 | 3.0 | ug/L | | | 06/02/14 04:07 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:07 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:07 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:07 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 04:07 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 04:07 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 04:07 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:07 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:07 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 04:07 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 04:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 04:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:07 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 04:07 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:07 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 04:07 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 04:07 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:07 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 04:07 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:07 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:07 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 04:07 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:07 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:07 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 04:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 04:07 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 04:07 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 04:07 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-11A-05282014

Lab Sample ID: 480-60714-12

Date Collected: 05/28/14 13:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:07 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 04:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 04:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 06/02/14 04:07 | 1 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | | | | 06/02/14 04:07 | 1 |

Client Sample ID: 4009-12-05282014

Lab Sample ID: 480-60714-13

Date Collected: 05/28/14 12:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|--------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 43 | | 1.0 | 0.82 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | | 1.0 | 0.31 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,1-Dichloroethane | 6.5 | | 1.0 | 0.38 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,1-Dichloroethene | 6.1 | | 1.0 | 0.29 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 04:29 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 04:29 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 04:29 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 04:29 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 04:29 | 1 |
| Acetone | 3.8 J | | 10 | 3.0 | ug/L | | | 06/02/14 04:29 | 1 |
| Benzene | 1.5 | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:29 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:29 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:29 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 04:29 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 04:29 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 04:29 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:29 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:29 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 04:29 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 04:29 | 1 |
| cis-1,2-Dichloroethene | 9.5 | | 1.0 | 0.81 | ug/L | | | 06/02/14 04:29 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:29 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 04:29 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:29 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-12-05282014

Lab Sample ID: 480-60714-13

Date Collected: 05/28/14 12:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 04:29 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 04:29 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:29 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 04:29 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:29 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:29 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 04:29 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:29 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:29 | 1 |
| Toluene | 0.84 | J | 1.0 | 0.51 | ug/L | | | 06/02/14 04:29 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:29 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 04:29 | 1 |
| Trichloroethene | 18 | | 1.0 | 0.46 | ug/L | | | 06/02/14 04:29 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 04:29 | 1 |
| Vinyl chloride | 3.7 | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:29 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 04:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 04:29 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 04:29 | 1 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | | | | 06/02/14 04:29 | 1 |

Client Sample ID: 4009-12A-05282014

Lab Sample ID: 480-60714-14

Date Collected: 05/28/14 12:40

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,1-Dichloroethane | 7.8 | | 1.0 | 0.38 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,1-Dichloroethene | 1.3 | | 1.0 | 0.29 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 04:50 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 04:50 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 04:50 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 04:50 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 04:50 | 1 |
| Acetone | 3.9 | J | 10 | 3.0 | ug/L | | | 06/02/14 04:50 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 04:50 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-12A-05282014

Lab Sample ID: 480-60714-14

Date Collected: 05/28/14 12:40

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|---------------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 04:50 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 04:50 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 04:50 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 04:50 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 04:50 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 04:50 | 1 |
| Chloroethane | 7.5 | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:50 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 04:50 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 04:50 | 1 |
| cis-1,2-Dichloroethene | 18 | | 1.0 | 0.81 | ug/L | | | 06/02/14 04:50 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:50 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 04:50 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 04:50 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 04:50 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 04:50 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 04:50 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 04:50 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:50 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 04:50 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 04:50 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 04:50 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 04:50 | 1 |
| Toluene | 0.55 J | | 1.0 | 0.51 | ug/L | | | 06/02/14 04:50 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:50 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 04:50 | 1 |
| Trichloroethene | 2.2 | | 1.0 | 0.46 | ug/L | | | 06/02/14 04:50 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 04:50 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 04:50 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 04:50 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 04:50 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 04:50 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 04:50 | 1 |

Client Sample ID: 4009-13-05282014

Lab Sample ID: 480-60714-15

Date Collected: 05/28/14 12:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:12 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-13-05282014

Lab Sample ID: 480-60714-15

Date Collected: 05/28/14 12:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 05:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 05:12 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 05:12 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 05:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 05:12 | 1 |
| Acetone | 3.8 | J | 10 | 3.0 | ug/L | | | 06/02/14 05:12 | 1 |
| Benzene | 0.42 | J | 1.0 | 0.41 | ug/L | | | 06/02/14 05:12 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:12 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:12 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 05:12 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 05:12 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 05:12 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:12 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:12 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 05:12 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 05:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 05:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:12 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 05:12 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:12 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 05:12 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 05:12 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:12 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 05:12 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:12 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:12 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 05:12 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:12 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:12 | 1 |
| Toluene | 3.7 | | 1.0 | 0.51 | ug/L | | | 06/02/14 05:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 05:12 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 05:12 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 05:12 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:12 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 05:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 05:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 05:12 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 05:12 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-13A-05282014

Lab Sample ID: 480-60714-16

Date Collected: 05/28/14 12:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 05:33 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 05:33 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 05:33 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 05:33 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 05:33 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 05:33 | 1 |
| Benzene | 0.58 | J | 1.0 | 0.41 | ug/L | | | 06/02/14 05:33 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:33 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:33 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 05:33 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 05:33 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 05:33 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:33 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:33 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 05:33 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 05:33 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 05:33 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:33 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 05:33 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:33 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 05:33 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 05:33 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:33 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 05:33 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:33 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:33 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 05:33 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:33 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:33 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 05:33 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:33 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 05:33 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 05:33 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 05:33 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-13A-05282014

Lab Sample ID: 480-60714-16

Date Collected: 05/28/14 12:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:33 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 05:33 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 05:33 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 05:33 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 05:33 | 1 |

Client Sample ID: 4009-14-05282014

Lab Sample ID: 480-60714-17

Date Collected: 05/28/14 11:55

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 05:55 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 05:55 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 05:55 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 05:55 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 05:55 | 1 |
| Acetone | 4.3 | J | 10 | 3.0 | ug/L | | | 06/02/14 05:55 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 05:55 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 05:55 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 05:55 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 05:55 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 05:55 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 05:55 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 05:55 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:55 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 05:55 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 05:55 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 05:55 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:55 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 05:55 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 05:55 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 05:55 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-14-05282014

Lab Sample ID: 480-60714-17

Date Collected: 05/28/14 11:55

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 05:55 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 05:55 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 05:55 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:55 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 05:55 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 05:55 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 05:55 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 05:55 | 1 |
| Toluene | 0.91 | J | 1.0 | 0.51 | ug/L | | | 06/02/14 05:55 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:55 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 05:55 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 05:55 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 05:55 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 05:55 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 05:55 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 05:55 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 05:55 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 05:55 | 1 |

Client Sample ID: 4009-15-05282014

Lab Sample ID: 480-60714-18

Date Collected: 05/28/14 11:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,1-Dichloroethane | 0.53 | J | 1.0 | 0.38 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 06:16 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 06:16 | 1 |
| 2-Butanone (MEK) | 1.3 | J | 10 | 1.3 | ug/L | | | 06/02/14 06:16 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 06:16 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 06:16 | 1 |
| Acetone | 5.1 | J | 10 | 3.0 | ug/L | | | 06/02/14 06:16 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:16 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:16 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-15-05282014

Lab Sample ID: 480-60714-18

Date Collected: 05/28/14 11:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:16 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 06:16 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 06:16 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 06:16 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:16 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:16 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 06:16 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 06:16 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 06:16 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:16 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 06:16 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:16 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 06:16 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 06:16 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:16 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 06:16 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:16 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:16 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 06:16 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:16 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:16 | 1 |
| Toluene | 0.56 | J | 1.0 | 0.51 | ug/L | | | 06/02/14 06:16 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:16 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 06:16 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 06:16 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 06:16 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:16 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 06:16 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 06:16 | 1 |
| 4-Bromofluorobenzene (Surr) | 95 | | 73 - 120 | | | | | 06/02/14 06:16 | 1 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | | | | 06/02/14 06:16 | 1 |

Client Sample ID: 4009-16-05282014

Lab Sample ID: 480-60714-19

Date Collected: 05/28/14 09:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:38 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-16-05282014

Lab Sample ID: 480-60714-19

Date Collected: 05/28/14 09:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 06:38 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 06:38 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 06:38 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 06:38 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 06:38 | 1 |
| Acetone | 3.5 | J | 10 | 3.0 | ug/L | | | 06/02/14 06:38 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:38 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:38 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:38 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 06:38 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 06:38 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 06:38 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:38 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:38 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 06:38 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 06:38 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 06:38 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:38 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 06:38 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:38 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 06:38 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 06:38 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:38 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 06:38 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:38 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:38 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 06:38 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:38 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:38 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 06:38 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:38 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 06:38 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 06:38 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 06:38 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:38 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 06:38 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 06:38 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 06:38 | 1 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | | | | 06/02/14 06:38 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-16A-05282014

Lab Sample ID: 480-60714-20

Date Collected: 05/28/14 09:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 06:59 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 06:59 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 06:59 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 06:59 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 06:59 | 1 |
| Acetone | 4.0 | J | 10 | 3.0 | ug/L | | | 06/02/14 06:59 | 1 |
| Benzene | 1.9 | | 1.0 | 0.41 | ug/L | | | 06/02/14 06:59 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 06:59 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 06:59 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 06:59 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 06:59 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 06:59 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 06:59 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:59 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 06:59 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 06:59 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 06:59 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:59 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 06:59 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 06:59 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 06:59 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 06:59 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 06:59 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 06:59 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:59 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 06:59 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 06:59 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 06:59 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 06:59 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 06:59 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:59 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 06:59 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 06:59 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 06:59 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-16A-05282014

Lab Sample ID: 480-60714-20

Date Collected: 05/28/14 09:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 06:59 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 06:59 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 06:59 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 06:59 | 1 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | | | | 06/02/14 06:59 | 1 |

Client Sample ID: 4009-22-05282014

Lab Sample ID: 480-60714-21

Date Collected: 05/28/14 10:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 13:06 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 13:06 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 13:06 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 13:06 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 13:06 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 13:06 | 1 |
| Benzene | 0.92 | J | 1.0 | 0.41 | ug/L | | | 06/02/14 13:06 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 13:06 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 13:06 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 13:06 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 13:06 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 13:06 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 13:06 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 13:06 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 13:06 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 13:06 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 13:06 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 13:06 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 13:06 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 13:06 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 13:06 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-22-05282014

Lab Sample ID: 480-60714-21

Date Collected: 05/28/14 10:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|------|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 13:06 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 13:06 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 13:06 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 13:06 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 13:06 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 13:06 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 13:06 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 13:06 | 1 |
| Toluene | 1.1 | | 1.0 | 0.51 | ug/L | | | 06/02/14 13:06 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 13:06 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 13:06 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 13:06 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 13:06 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 13:06 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 13:06 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 | | | | | 06/02/14 13:06 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 13:06 | 1 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | | | | 06/02/14 13:06 | 1 |

Client Sample ID: 4009-23S-05282014

Lab Sample ID: 480-60714-22

Date Collected: 05/28/14 11:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,1-Dichloroethane | 4.4 | | 1.0 | 0.38 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2,3-Trimethylbenzene | 0.38 | J | 1.0 | 0.26 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2,4-Trimethylbenzene | 2.0 | | 1.0 | 0.75 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,3,5-Trimethylbenzene | 1.2 | | 1.0 | 0.77 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 13:28 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 13:28 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 13:28 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 13:28 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 13:28 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 13:28 | 1 |
| Benzene | 1.8 | | 1.0 | 0.41 | ug/L | | | 06/02/14 13:28 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 13:28 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-23S-05282014

Lab Sample ID: 480-60714-22

Date Collected: 05/28/14 11:35

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------|-------------|-----------|----------|------|------|---|----------|----------------|---------|
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 13:28 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 13:28 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 13:28 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 13:28 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 13:28 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 13:28 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 13:28 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 13:28 | 1 |
| cis-1,2-Dichloroethene | 2.2 | | 1.0 | 0.81 | ug/L | | | 06/02/14 13:28 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 13:28 | 1 |
| Cyclohexane | 0.61 | J | 1.0 | 0.18 | ug/L | | | 06/02/14 13:28 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 13:28 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 13:28 | 1 |
| Ethylbenzene | 0.83 | J | 1.0 | 0.74 | ug/L | | | 06/02/14 13:28 | 1 |
| Isopropylbenzene | 3.6 | | 1.0 | 0.79 | ug/L | | | 06/02/14 13:28 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 13:28 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 13:28 | 1 |
| Methylcyclohexane | 0.53 | J | 1.0 | 0.16 | ug/L | | | 06/02/14 13:28 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 13:28 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 13:28 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 13:28 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 13:28 | 1 |
| trans-1,2-Dichloroethene | 2.8 | | 1.0 | 0.90 | ug/L | | | 06/02/14 13:28 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 13:28 | 1 |
| Trichloroethene | 1.6 | | 1.0 | 0.46 | ug/L | | | 06/02/14 13:28 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 13:28 | 1 |
| Vinyl chloride | 1.1 | | 1.0 | 0.90 | ug/L | | | 06/02/14 13:28 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 13:28 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | | | | 06/02/14 13:28 | 1 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 | | | | | 06/02/14 13:28 | 1 |
| Toluene-d8 (Surr) | 104 | | 71 - 126 | | | | | 06/02/14 13:28 | 1 |

Client Sample ID: 4009-23D-05282014

Lab Sample ID: 480-60714-23

Date Collected: 05/28/14 11:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 720 | | 10 | 8.2 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 18 | | 10 | 3.1 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,1,2-Trichloroethane | ND | | 10 | 2.3 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,1-Dichloroethane | 420 | | 10 | 3.8 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,1-Dichloroethene | 78 | | 10 | 2.9 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2,3-Trimethylbenzene | ND | | 10 | 2.6 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2,4-Trichlorobenzene | ND | | 10 | 4.1 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2,4-Trimethylbenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 13:50 | 10 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-23D-05282014

Lab Sample ID: 480-60714-23

Date Collected: 05/28/14 11:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|--------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2-Dibromoethane | ND | | 10 | 7.3 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2-Dichlorobenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2-Dichloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,2-Dichloropropane | ND | | 10 | 7.2 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,3,5-Trimethylbenzene | ND | | 10 | 7.7 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,3-Dichlorobenzene | ND | | 10 | 7.8 | ug/L | | | 06/02/14 13:50 | 10 |
| 1,4-Dichlorobenzene | ND | | 10 | 8.4 | ug/L | | | 06/02/14 13:50 | 10 |
| 2-Butanone (MEK) | ND | | 100 | 13 | ug/L | | | 06/02/14 13:50 | 10 |
| 2-Hexanone | ND | | 50 | 12 | ug/L | | | 06/02/14 13:50 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 21 | ug/L | | | 06/02/14 13:50 | 10 |
| Acetone | ND | | 100 | 30 | ug/L | | | 06/02/14 13:50 | 10 |
| Benzene | ND | | 10 | 4.1 | ug/L | | | 06/02/14 13:50 | 10 |
| Bromodichloromethane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 13:50 | 10 |
| Bromoform | ND | | 10 | 2.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Bromomethane | ND | | 10 | 6.9 | ug/L | | | 06/02/14 13:50 | 10 |
| Carbon disulfide | ND | | 10 | 1.9 | ug/L | | | 06/02/14 13:50 | 10 |
| Carbon tetrachloride | ND | | 10 | 2.7 | ug/L | | | 06/02/14 13:50 | 10 |
| Chlorobenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 13:50 | 10 |
| Chloroethane | 11 | | 10 | 3.2 | ug/L | | | 06/02/14 13:50 | 10 |
| Chloroform | ND | | 10 | 3.4 | ug/L | | | 06/02/14 13:50 | 10 |
| Chloromethane | ND | | 10 | 3.5 | ug/L | | | 06/02/14 13:50 | 10 |
| cis-1,2-Dichloroethene | 450 | | 10 | 8.1 | ug/L | | | 06/02/14 13:50 | 10 |
| cis-1,3-Dichloropropene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Cyclohexane | ND | | 10 | 1.8 | ug/L | | | 06/02/14 13:50 | 10 |
| Dibromochloromethane | ND | | 10 | 3.2 | ug/L | | | 06/02/14 13:50 | 10 |
| Dichlorodifluoromethane | ND | | 10 | 6.8 | ug/L | | | 06/02/14 13:50 | 10 |
| Ethylbenzene | ND | | 10 | 7.4 | ug/L | | | 06/02/14 13:50 | 10 |
| Isopropylbenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 13:50 | 10 |
| Methyl acetate | ND | | 25 | 5.0 | ug/L | | | 06/02/14 13:50 | 10 |
| Methyl tert-butyl ether | ND | | 10 | 1.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Methylcyclohexane | ND | | 10 | 1.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Methylene Chloride | ND | | 10 | 4.4 | ug/L | | | 06/02/14 13:50 | 10 |
| Styrene | ND | | 10 | 7.3 | ug/L | | | 06/02/14 13:50 | 10 |
| Tetrachloroethene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Toluene | ND | | 10 | 5.1 | ug/L | | | 06/02/14 13:50 | 10 |
| trans-1,2-Dichloroethene | ND | | 10 | 9.0 | ug/L | | | 06/02/14 13:50 | 10 |
| trans-1,3-Dichloropropene | ND | | 10 | 3.7 | ug/L | | | 06/02/14 13:50 | 10 |
| Trichloroethene | 8.3 J | | 10 | 4.6 | ug/L | | | 06/02/14 13:50 | 10 |
| Trichlorofluoromethane | ND | | 10 | 8.8 | ug/L | | | 06/02/14 13:50 | 10 |
| Vinyl chloride | 440 | | 10 | 9.0 | ug/L | | | 06/02/14 13:50 | 10 |
| Xylenes, Total | ND | | 20 | 6.6 | ug/L | | | 06/02/14 13:50 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 | | 06/02/14 13:50 | 10 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 | | 06/02/14 13:50 | 10 |
| Toluene-d8 (Surr) | 103 | | 71 - 126 | | 06/02/14 13:50 | 10 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-24-05282014

Lab Sample ID: 480-60714-24

Date Collected: 05/28/14 11:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 14:12 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 14:12 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 14:12 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 14:12 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 14:12 | 1 |
| Acetone | 4.2 | J | 10 | 3.0 | ug/L | | | 06/02/14 14:12 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 14:12 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 14:12 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 14:12 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 14:12 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 14:12 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 14:12 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 14:12 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 14:12 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 14:12 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 14:12 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 14:12 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 14:12 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 14:12 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 14:12 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 14:12 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 14:12 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 14:12 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 14:12 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 14:12 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 14:12 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 14:12 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 14:12 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 14:12 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 14:12 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 14:12 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 14:12 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 14:12 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 14:12 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-24-05282014

Lab Sample ID: 480-60714-24

Date Collected: 05/28/14 11:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 14:12 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 14:12 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 | | | | | 06/02/14 14:12 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 14:12 | 1 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 | | | | | 06/02/14 14:12 | 1 |

Client Sample ID: 4009-25S-05282014

Lab Sample ID: 480-60714-25

Date Collected: 05/28/14 11:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 3300 | | 40 | 33 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,1,1,2,2-Tetrachloroethane | ND | | 40 | 8.4 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 40 | 12 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,1,2-Trichloroethane | ND | | 40 | 9.2 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,1-Dichloroethane | 140 | | 40 | 15 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,1-Dichloroethene | 410 | | 40 | 12 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2,3-Trimethylbenzene | ND | | 40 | 10 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2,4-Trichlorobenzene | ND | | 40 | 16 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2,4-Trimethylbenzene | ND | | 40 | 30 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40 | 16 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2-Dibromoethane | ND | | 40 | 29 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2-Dichlorobenzene | ND | | 40 | 32 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2-Dichloroethane | ND | | 40 | 8.4 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,2-Dichloropropane | ND | | 40 | 29 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,3,5-Trimethylbenzene | ND | | 40 | 31 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,3-Dichlorobenzene | ND | | 40 | 31 | ug/L | | | 06/02/14 14:34 | 40 |
| 1,4-Dichlorobenzene | ND | | 40 | 34 | ug/L | | | 06/02/14 14:34 | 40 |
| 2-Butanone (MEK) | ND | | 400 | 53 | ug/L | | | 06/02/14 14:34 | 40 |
| 2-Hexanone | ND | | 200 | 50 | ug/L | | | 06/02/14 14:34 | 40 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 200 | 84 | ug/L | | | 06/02/14 14:34 | 40 |
| Acetone | ND | | 400 | 120 | ug/L | | | 06/02/14 14:34 | 40 |
| Benzene | ND | | 40 | 16 | ug/L | | | 06/02/14 14:34 | 40 |
| Bromodichloromethane | ND | | 40 | 16 | ug/L | | | 06/02/14 14:34 | 40 |
| Bromoform | ND | | 40 | 10 | ug/L | | | 06/02/14 14:34 | 40 |
| Bromomethane | ND | | 40 | 28 | ug/L | | | 06/02/14 14:34 | 40 |
| Carbon disulfide | ND | | 40 | 7.6 | ug/L | | | 06/02/14 14:34 | 40 |
| Carbon tetrachloride | ND | | 40 | 11 | ug/L | | | 06/02/14 14:34 | 40 |
| Chlorobenzene | ND | | 40 | 30 | ug/L | | | 06/02/14 14:34 | 40 |
| Chloroethane | ND | | 40 | 13 | ug/L | | | 06/02/14 14:34 | 40 |
| Chloroform | ND | | 40 | 14 | ug/L | | | 06/02/14 14:34 | 40 |
| Chloromethane | ND | | 40 | 14 | ug/L | | | 06/02/14 14:34 | 40 |
| cis-1,2-Dichloroethene | 210 | | 40 | 32 | ug/L | | | 06/02/14 14:34 | 40 |
| cis-1,3-Dichloropropene | ND | | 40 | 14 | ug/L | | | 06/02/14 14:34 | 40 |
| Cyclohexane | ND | | 40 | 7.2 | ug/L | | | 06/02/14 14:34 | 40 |
| Dibromochloromethane | ND | | 40 | 13 | ug/L | | | 06/02/14 14:34 | 40 |
| Dichlorodifluoromethane | ND | | 40 | 27 | ug/L | | | 06/02/14 14:34 | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-25S-05282014

Lab Sample ID: 480-60714-25

Date Collected: 05/28/14 11:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|-----|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 40 | 30 | ug/L | | | 06/02/14 14:34 | 40 |
| Isopropylbenzene | ND | | 40 | 32 | ug/L | | | 06/02/14 14:34 | 40 |
| Methyl acetate | ND | | 100 | 20 | ug/L | | | 06/02/14 14:34 | 40 |
| Methyl tert-butyl ether | ND | | 40 | 6.4 | ug/L | | | 06/02/14 14:34 | 40 |
| Methylcyclohexane | ND | | 40 | 6.4 | ug/L | | | 06/02/14 14:34 | 40 |
| Methylene Chloride | ND | | 40 | 18 | ug/L | | | 06/02/14 14:34 | 40 |
| Styrene | ND | | 40 | 29 | ug/L | | | 06/02/14 14:34 | 40 |
| Tetrachloroethene | ND | | 40 | 14 | ug/L | | | 06/02/14 14:34 | 40 |
| Toluene | ND | | 40 | 20 | ug/L | | | 06/02/14 14:34 | 40 |
| trans-1,2-Dichloroethene | ND | | 40 | 36 | ug/L | | | 06/02/14 14:34 | 40 |
| trans-1,3-Dichloropropene | ND | | 40 | 15 | ug/L | | | 06/02/14 14:34 | 40 |
| Trichloroethene | ND | | 40 | 18 | ug/L | | | 06/02/14 14:34 | 40 |
| Trichlorofluoromethane | ND | | 40 | 35 | ug/L | | | 06/02/14 14:34 | 40 |
| Vinyl chloride | ND | | 40 | 36 | ug/L | | | 06/02/14 14:34 | 40 |
| Xylenes, Total | ND | | 80 | 26 | ug/L | | | 06/02/14 14:34 | 40 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 | | | | | 06/02/14 14:34 | 40 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 14:34 | 40 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 14:34 | 40 |

Client Sample ID: 4009-25D-05282014

Lab Sample ID: 480-60714-26

Date Collected: 05/28/14 11:05

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 2700 | E | 20 | 16 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,1,1,2-Tetrachloroethane | ND | | 20 | 4.2 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 20 | 6.2 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,1,2-Trichloroethane | ND | | 20 | 4.6 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,1-Dichloroethane | 120 | | 20 | 7.6 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,1-Dichloroethene | 330 | | 20 | 5.8 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2,3-Trimethylbenzene | ND | | 20 | 5.2 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2,4-Trichlorobenzene | ND | | 20 | 8.2 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2,4-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2-Dibromo-3-Chloropropane | ND | | 20 | 7.8 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2-Dibromoethane | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2-Dichloroethane | ND | | 20 | 4.2 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,2-Dichloropropane | ND | | 20 | 14 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,3,5-Trimethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,3-Dichlorobenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 14:56 | 20 |
| 1,4-Dichlorobenzene | ND | | 20 | 17 | ug/L | | | 06/02/14 14:56 | 20 |
| 2-Butanone (MEK) | ND | | 200 | 26 | ug/L | | | 06/02/14 14:56 | 20 |
| 2-Hexanone | ND | | 100 | 25 | ug/L | | | 06/02/14 14:56 | 20 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 100 | 42 | ug/L | | | 06/02/14 14:56 | 20 |
| Acetone | ND | | 200 | 60 | ug/L | | | 06/02/14 14:56 | 20 |
| Benzene | ND | | 20 | 8.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Bromodichloromethane | ND | | 20 | 7.8 | ug/L | | | 06/02/14 14:56 | 20 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-25D-05282014

Lab Sample ID: 480-60714-26

Date Collected: 05/28/14 11:05

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| Bromoform | ND | | 20 | 5.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Bromomethane | ND | | 20 | 14 | ug/L | | | 06/02/14 14:56 | 20 |
| Carbon disulfide | ND | | 20 | 3.8 | ug/L | | | 06/02/14 14:56 | 20 |
| Carbon tetrachloride | ND | | 20 | 5.4 | ug/L | | | 06/02/14 14:56 | 20 |
| Chlorobenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| Chloroethane | ND | | 20 | 6.4 | ug/L | | | 06/02/14 14:56 | 20 |
| Chloroform | ND | | 20 | 6.8 | ug/L | | | 06/02/14 14:56 | 20 |
| Chloromethane | ND | | 20 | 7.0 | ug/L | | | 06/02/14 14:56 | 20 |
| cis-1,2-Dichloroethene | 110 | | 20 | 16 | ug/L | | | 06/02/14 14:56 | 20 |
| cis-1,3-Dichloropropene | ND | | 20 | 7.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Cyclohexane | ND | | 20 | 3.6 | ug/L | | | 06/02/14 14:56 | 20 |
| Dibromochloromethane | ND | | 20 | 6.4 | ug/L | | | 06/02/14 14:56 | 20 |
| Dichlorodifluoromethane | ND | | 20 | 14 | ug/L | | | 06/02/14 14:56 | 20 |
| Ethylbenzene | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| Isopropylbenzene | ND | | 20 | 16 | ug/L | | | 06/02/14 14:56 | 20 |
| Methyl acetate | ND | | 50 | 10 | ug/L | | | 06/02/14 14:56 | 20 |
| Methyl tert-butyl ether | ND | | 20 | 3.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Methylcyclohexane | ND | | 20 | 3.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Methylene Chloride | ND | | 20 | 8.8 | ug/L | | | 06/02/14 14:56 | 20 |
| Styrene | ND | | 20 | 15 | ug/L | | | 06/02/14 14:56 | 20 |
| Tetrachloroethene | ND | | 20 | 7.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Toluene | ND | | 20 | 10 | ug/L | | | 06/02/14 14:56 | 20 |
| trans-1,2-Dichloroethene | ND | | 20 | 18 | ug/L | | | 06/02/14 14:56 | 20 |
| trans-1,3-Dichloropropene | ND | | 20 | 7.4 | ug/L | | | 06/02/14 14:56 | 20 |
| Trichloroethene | 10 J | | 20 | 9.2 | ug/L | | | 06/02/14 14:56 | 20 |
| Trichlorofluoromethane | ND | | 20 | 18 | ug/L | | | 06/02/14 14:56 | 20 |
| Vinyl chloride | ND | | 20 | 18 | ug/L | | | 06/02/14 14:56 | 20 |
| Xylenes, Total | ND | | 40 | 13 | ug/L | | | 06/02/14 14:56 | 20 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | 06/02/14 14:56 | 20 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | 06/02/14 14:56 | 20 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | 06/02/14 14:56 | 20 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 3300 | | 40 | 33 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,1,2,2-Tetrachloroethane | ND | | 40 | 8.4 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 22 J | | 40 | 12 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,1,2-Trichloroethane | ND | | 40 | 9.2 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,1-Dichloroethane | 140 | | 40 | 15 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,1-Dichloroethene | 390 | | 40 | 12 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2,3-Trimethylbenzene | ND | | 40 | 10 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2,4-Trichlorobenzene | ND | | 40 | 16 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2,4-Trimethylbenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40 | 16 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2-Dibromoethane | ND | | 40 | 29 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2-Dichlorobenzene | ND | | 40 | 32 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,2-Dichloroethane | ND | | 40 | 8.4 | ug/L | | | 06/03/14 04:26 | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-25D-05282014

Lab Sample ID: 480-60714-26

Date Collected: 05/28/14 11:05

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichloropropane | ND | | 40 | 29 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,3,5-Trimethylbenzene | ND | | 40 | 31 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,3-Dichlorobenzene | ND | | 40 | 31 | ug/L | | | 06/03/14 04:26 | 40 |
| 1,4-Dichlorobenzene | ND | | 40 | 34 | ug/L | | | 06/03/14 04:26 | 40 |
| 2-Butanone (MEK) | ND | | 400 | 53 | ug/L | | | 06/03/14 04:26 | 40 |
| 2-Hexanone | ND | | 200 | 50 | ug/L | | | 06/03/14 04:26 | 40 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 200 | 84 | ug/L | | | 06/03/14 04:26 | 40 |
| Acetone | ND | | 400 | 120 | ug/L | | | 06/03/14 04:26 | 40 |
| Benzene | ND | | 40 | 16 | ug/L | | | 06/03/14 04:26 | 40 |
| Bromodichloromethane | ND | | 40 | 16 | ug/L | | | 06/03/14 04:26 | 40 |
| Bromoform | ND | | 40 | 10 | ug/L | | | 06/03/14 04:26 | 40 |
| Bromomethane | ND | | 40 | 28 | ug/L | | | 06/03/14 04:26 | 40 |
| Carbon disulfide | ND | | 40 | 7.6 | ug/L | | | 06/03/14 04:26 | 40 |
| Carbon tetrachloride | ND | | 40 | 11 | ug/L | | | 06/03/14 04:26 | 40 |
| Chlorobenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 04:26 | 40 |
| Chloroethane | ND | | 40 | 13 | ug/L | | | 06/03/14 04:26 | 40 |
| Chloroform | ND | | 40 | 14 | ug/L | | | 06/03/14 04:26 | 40 |
| Chloromethane | ND | | 40 | 14 | ug/L | | | 06/03/14 04:26 | 40 |
| cis-1,2-Dichloroethene | 140 | | 40 | 32 | ug/L | | | 06/03/14 04:26 | 40 |
| cis-1,3-Dichloropropene | ND | | 40 | 14 | ug/L | | | 06/03/14 04:26 | 40 |
| Cyclohexane | ND | | 40 | 7.2 | ug/L | | | 06/03/14 04:26 | 40 |
| Dibromochloromethane | ND | | 40 | 13 | ug/L | | | 06/03/14 04:26 | 40 |
| Dichlorodifluoromethane | ND | | 40 | 27 | ug/L | | | 06/03/14 04:26 | 40 |
| Ethylbenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 04:26 | 40 |
| Isopropylbenzene | ND | | 40 | 32 | ug/L | | | 06/03/14 04:26 | 40 |
| Methyl acetate | ND | | 100 | 20 | ug/L | | | 06/03/14 04:26 | 40 |
| Methyl tert-butyl ether | ND | | 40 | 6.4 | ug/L | | | 06/03/14 04:26 | 40 |
| Methylcyclohexane | ND | | 40 | 6.4 | ug/L | | | 06/03/14 04:26 | 40 |
| Methylene Chloride | 50 | | 40 | 18 | ug/L | | | 06/03/14 04:26 | 40 |
| Styrene | ND | | 40 | 29 | ug/L | | | 06/03/14 04:26 | 40 |
| Tetrachloroethene | ND | | 40 | 14 | ug/L | | | 06/03/14 04:26 | 40 |
| Toluene | ND | | 40 | 20 | ug/L | | | 06/03/14 04:26 | 40 |
| trans-1,2-Dichloroethene | ND | | 40 | 36 | ug/L | | | 06/03/14 04:26 | 40 |
| trans-1,3-Dichloropropene | ND | | 40 | 15 | ug/L | | | 06/03/14 04:26 | 40 |
| Trichloroethene | ND | | 40 | 18 | ug/L | | | 06/03/14 04:26 | 40 |
| Trichlorofluoromethane | ND | | 40 | 35 | ug/L | | | 06/03/14 04:26 | 40 |
| Vinyl chloride | ND | | 40 | 36 | ug/L | | | 06/03/14 04:26 | 40 |
| Xylenes, Total | ND | | 80 | 26 | ug/L | | | 06/03/14 04:26 | 40 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | 06/03/14 04:26 | 40 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | 06/03/14 04:26 | 40 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | 06/03/14 04:26 | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-26-05282014

Lab Sample ID: 480-60714-27

Date Collected: 05/28/14 11:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 420 | E | 2.0 | 1.6 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,1,2,2-Tetrachloroethane | ND | | 2.0 | 0.42 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 15 | | 2.0 | 0.62 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,1,2-Trichloroethane | ND | | 2.0 | 0.46 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,1-Dichloroethane | 46 | | 2.0 | 0.76 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,1-Dichloroethene | 42 | | 2.0 | 0.58 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2,3-Trimethylbenzene | ND | | 2.0 | 0.52 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2,4-Trichlorobenzene | ND | | 2.0 | 0.82 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2,4-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2-Dibromo-3-Chloropropane | ND | | 2.0 | 0.78 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2-Dibromoethane | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2-Dichloroethane | ND | | 2.0 | 0.42 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,2-Dichloropropane | ND | | 2.0 | 1.4 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,3,5-Trimethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,3-Dichlorobenzene | ND | | 2.0 | 1.6 | ug/L | | | 06/02/14 15:18 | 2 |
| 1,4-Dichlorobenzene | ND | | 2.0 | 1.7 | ug/L | | | 06/02/14 15:18 | 2 |
| 2-Butanone (MEK) | ND | | 20 | 2.6 | ug/L | | | 06/02/14 15:18 | 2 |
| 2-Hexanone | ND | | 10 | 2.5 | ug/L | | | 06/02/14 15:18 | 2 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 10 | 4.2 | ug/L | | | 06/02/14 15:18 | 2 |
| Acetone | ND | | 20 | 6.0 | ug/L | | | 06/02/14 15:18 | 2 |
| Benzene | 1.4 | J | 2.0 | 0.82 | ug/L | | | 06/02/14 15:18 | 2 |
| Bromodichloromethane | ND | | 2.0 | 0.78 | ug/L | | | 06/02/14 15:18 | 2 |
| Bromoform | ND | | 2.0 | 0.52 | ug/L | | | 06/02/14 15:18 | 2 |
| Bromomethane | ND | | 2.0 | 1.4 | ug/L | | | 06/02/14 15:18 | 2 |
| Carbon disulfide | ND | | 2.0 | 0.38 | ug/L | | | 06/02/14 15:18 | 2 |
| Carbon tetrachloride | ND | | 2.0 | 0.54 | ug/L | | | 06/02/14 15:18 | 2 |
| Chlorobenzene | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| Chloroethane | 3.3 | | 2.0 | 0.64 | ug/L | | | 06/02/14 15:18 | 2 |
| Chloroform | ND | | 2.0 | 0.68 | ug/L | | | 06/02/14 15:18 | 2 |
| Chloromethane | ND | | 2.0 | 0.70 | ug/L | | | 06/02/14 15:18 | 2 |
| cis-1,2-Dichloroethene | 210 | E | 2.0 | 1.6 | ug/L | | | 06/02/14 15:18 | 2 |
| cis-1,3-Dichloropropene | ND | | 2.0 | 0.72 | ug/L | | | 06/02/14 15:18 | 2 |
| Cyclohexane | ND | | 2.0 | 0.36 | ug/L | | | 06/02/14 15:18 | 2 |
| Dibromochloromethane | ND | | 2.0 | 0.64 | ug/L | | | 06/02/14 15:18 | 2 |
| Dichlorodifluoromethane | ND | | 2.0 | 1.4 | ug/L | | | 06/02/14 15:18 | 2 |
| Ethylbenzene | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| Isopropylbenzene | ND | | 2.0 | 1.6 | ug/L | | | 06/02/14 15:18 | 2 |
| Methyl acetate | ND | | 5.0 | 1.0 | ug/L | | | 06/02/14 15:18 | 2 |
| Methyl tert-butyl ether | ND | | 2.0 | 0.32 | ug/L | | | 06/02/14 15:18 | 2 |
| Methylcyclohexane | ND | | 2.0 | 0.32 | ug/L | | | 06/02/14 15:18 | 2 |
| Methylene Chloride | ND | | 2.0 | 0.88 | ug/L | | | 06/02/14 15:18 | 2 |
| Styrene | ND | | 2.0 | 1.5 | ug/L | | | 06/02/14 15:18 | 2 |
| Tetrachloroethene | 1.5 | J | 2.0 | 0.72 | ug/L | | | 06/02/14 15:18 | 2 |
| Toluene | ND | | 2.0 | 1.0 | ug/L | | | 06/02/14 15:18 | 2 |
| trans-1,2-Dichloroethene | ND | | 2.0 | 1.8 | ug/L | | | 06/02/14 15:18 | 2 |
| trans-1,3-Dichloropropene | ND | | 2.0 | 0.74 | ug/L | | | 06/02/14 15:18 | 2 |
| Trichloroethene | 79 | | 2.0 | 0.92 | ug/L | | | 06/02/14 15:18 | 2 |
| Trichlorofluoromethane | ND | | 2.0 | 1.8 | ug/L | | | 06/02/14 15:18 | 2 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-26-05282014

Lab Sample ID: 480-60714-27

Date Collected: 05/28/14 11:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|------|---|-----------------|-----------------|----------------|
| Vinyl chloride | 22 | | 2.0 | 1.8 | ug/L | | | 06/02/14 15:18 | 2 |
| Xylenes, Total | ND | | 4.0 | 1.3 | ug/L | | | 06/02/14 15:18 | 2 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 15:18 | 2 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 15:18 | 2 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 15:18 | 2 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 370 | | 8.0 | 6.6 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,1,2,2-Tetrachloroethane | ND | | 8.0 | 1.7 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 13 | | 8.0 | 2.5 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,1,2-Trichloroethane | ND | | 8.0 | 1.8 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,1-Dichloroethane | 39 | | 8.0 | 3.0 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,1-Dichloroethene | 46 | | 8.0 | 2.3 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2,3-Trimethylbenzene | ND | | 8.0 | 2.1 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2,4-Trichlorobenzene | ND | | 8.0 | 3.3 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2,4-Trimethylbenzene | ND | | 8.0 | 6.0 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2-Dibromo-3-Chloropropane | ND | | 8.0 | 3.1 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2-Dibromoethane | ND | | 8.0 | 5.8 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2-Dichlorobenzene | ND | | 8.0 | 6.3 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2-Dichloroethane | ND | | 8.0 | 1.7 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,2-Dichloropropane | ND | | 8.0 | 5.8 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,3,5-Trimethylbenzene | ND | | 8.0 | 6.2 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,3-Dichlorobenzene | ND | | 8.0 | 6.2 | ug/L | | | 06/03/14 04:48 | 8 |
| 1,4-Dichlorobenzene | ND | | 8.0 | 6.7 | ug/L | | | 06/03/14 04:48 | 8 |
| 2-Butanone (MEK) | ND | | 80 | 11 | ug/L | | | 06/03/14 04:48 | 8 |
| 2-Hexanone | ND | | 40 | 9.9 | ug/L | | | 06/03/14 04:48 | 8 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 40 | 17 | ug/L | | | 06/03/14 04:48 | 8 |
| Acetone | ND | | 80 | 24 | ug/L | | | 06/03/14 04:48 | 8 |
| Benzene | ND | | 8.0 | 3.3 | ug/L | | | 06/03/14 04:48 | 8 |
| Bromodichloromethane | ND | | 8.0 | 3.1 | ug/L | | | 06/03/14 04:48 | 8 |
| Bromoform | ND | | 8.0 | 2.1 | ug/L | | | 06/03/14 04:48 | 8 |
| Bromomethane | ND | | 8.0 | 5.5 | ug/L | | | 06/03/14 04:48 | 8 |
| Carbon disulfide | ND | | 8.0 | 1.5 | ug/L | | | 06/03/14 04:48 | 8 |
| Carbon tetrachloride | ND | | 8.0 | 2.2 | ug/L | | | 06/03/14 04:48 | 8 |
| Chlorobenzene | ND | | 8.0 | 6.0 | ug/L | | | 06/03/14 04:48 | 8 |
| Chloroethane | ND | | 8.0 | 2.6 | ug/L | | | 06/03/14 04:48 | 8 |
| Chloroform | ND | | 8.0 | 2.7 | ug/L | | | 06/03/14 04:48 | 8 |
| Chloromethane | ND | | 8.0 | 2.8 | ug/L | | | 06/03/14 04:48 | 8 |
| cis-1,2-Dichloroethene | 190 | | 8.0 | 6.5 | ug/L | | | 06/03/14 04:48 | 8 |
| cis-1,3-Dichloropropene | ND | | 8.0 | 2.9 | ug/L | | | 06/03/14 04:48 | 8 |
| Cyclohexane | ND | | 8.0 | 1.4 | ug/L | | | 06/03/14 04:48 | 8 |
| Dibromochloromethane | ND | | 8.0 | 2.6 | ug/L | | | 06/03/14 04:48 | 8 |
| Dichlorodifluoromethane | 5.8 J | | 8.0 | 5.4 | ug/L | | | 06/03/14 04:48 | 8 |
| Ethylbenzene | ND | | 8.0 | 5.9 | ug/L | | | 06/03/14 04:48 | 8 |
| Isopropylbenzene | ND | | 8.0 | 6.3 | ug/L | | | 06/03/14 04:48 | 8 |
| Methyl acetate | ND | | 20 | 4.0 | ug/L | | | 06/03/14 04:48 | 8 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-26-05282014

Lab Sample ID: 480-60714-27

Date Collected: 05/28/14 11:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------------|------------------|---------------|-----|------|---|-----------------|-----------------|----------------|
| Methyl tert-butyl ether | ND | | 8.0 | 1.3 | ug/L | | | 06/03/14 04:48 | 8 |
| Methylcyclohexane | ND | | 8.0 | 1.3 | ug/L | | | 06/03/14 04:48 | 8 |
| Methylene Chloride | 8.4 | | 8.0 | 3.5 | ug/L | | | 06/03/14 04:48 | 8 |
| Styrene | ND | | 8.0 | 5.8 | ug/L | | | 06/03/14 04:48 | 8 |
| Tetrachloroethene | ND | | 8.0 | 2.9 | ug/L | | | 06/03/14 04:48 | 8 |
| Toluene | ND | | 8.0 | 4.1 | ug/L | | | 06/03/14 04:48 | 8 |
| trans-1,2-Dichloroethene | ND | | 8.0 | 7.2 | ug/L | | | 06/03/14 04:48 | 8 |
| trans-1,3-Dichloropropene | ND | | 8.0 | 3.0 | ug/L | | | 06/03/14 04:48 | 8 |
| Trichloroethene | 71 | | 8.0 | 3.7 | ug/L | | | 06/03/14 04:48 | 8 |
| Trichlorofluoromethane | ND | | 8.0 | 7.0 | ug/L | | | 06/03/14 04:48 | 8 |
| Vinyl chloride | 21 | | 8.0 | 7.2 | ug/L | | | 06/03/14 04:48 | 8 |
| Xylenes, Total | ND | | 16 | 5.3 | ug/L | | | 06/03/14 04:48 | 8 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/03/14 04:48 | 8 |
| 4-Bromofluorobenzene (Surr) | 100 | | 73 - 120 | | | | | 06/03/14 04:48 | 8 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | | | | 06/03/14 04:48 | 8 |

Client Sample ID: 4009-27S-05282014

Lab Sample ID: 480-60714-28

Date Collected: 05/28/14 10:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|---------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 61 | | 1.0 | 0.82 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 3.4 | | 1.0 | 0.31 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,1-Dichloroethane | 2.2 | | 1.0 | 0.38 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,1-Dichloroethene | 8.9 | | 1.0 | 0.29 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2-Dichloroethane | 0.87 J | | 1.0 | 0.21 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 15:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 15:40 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 15:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 15:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 15:40 | 1 |
| Acetone | 3.8 J | | 10 | 3.0 | ug/L | | | 06/02/14 15:40 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 15:40 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 15:40 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 15:40 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 15:40 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-27S-05282014

Lab Sample ID: 480-60714-28

Date Collected: 05/28/14 10:50

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------------|------------------|---------------|------|------|---|-----------------|-----------------|----------------|
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 15:40 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 15:40 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 15:40 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 15:40 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 15:40 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 15:40 | 1 |
| cis-1,2-Dichloroethene | 20 | | 1.0 | 0.81 | ug/L | | | 06/02/14 15:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 15:40 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 15:40 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 15:40 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 15:40 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 15:40 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 15:40 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 15:40 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 15:40 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 15:40 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 15:40 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 15:40 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 15:40 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 15:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 15:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 15:40 | 1 |
| Trichloroethene | 28 | | 1.0 | 0.46 | ug/L | | | 06/02/14 15:40 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 15:40 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 15:40 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 15:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 15:40 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 15:40 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 15:40 | 1 |

Client Sample ID: 4009-27I-05282014

Lab Sample ID: 480-60714-29

Date Collected: 05/28/14 10:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.37 | J | 1.0 | 0.31 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 16:01 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-271-05282014

Lab Sample ID: 480-60714-29

Date Collected: 05/28/14 10:45

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 16:01 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 16:01 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 16:01 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 16:01 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 16:01 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 16:01 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 16:01 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 16:01 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 16:01 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 16:01 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 16:01 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 16:01 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 16:01 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 16:01 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 16:01 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 16:01 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 16:01 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 16:01 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 16:01 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 16:01 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 16:01 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 16:01 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 16:01 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 16:01 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 16:01 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 16:01 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 16:01 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 16:01 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 16:01 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 16:01 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 16:01 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 16:01 | 1 |
| Trichloroethene | 1.1 | | 1.0 | 0.46 | ug/L | | | 06/02/14 16:01 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 16:01 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 16:01 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 16:01 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | 06/02/14 16:01 | 1 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 06/02/14 16:01 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | 06/02/14 16:01 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-27D-05282014

Lab Sample ID: 480-60714-30

Date Collected: 05/28/14 10:40

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 17:07 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 17:07 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 17:07 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 17:07 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 17:07 | 1 |
| Acetone | 4.8 J | | 10 | 3.0 | ug/L | | | 06/02/14 17:07 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 17:07 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 17:07 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 17:07 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 17:07 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 17:07 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 17:07 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 17:07 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 17:07 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 17:07 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 17:07 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 17:07 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 17:07 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 17:07 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 17:07 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 17:07 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 17:07 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 17:07 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 17:07 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 17:07 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 17:07 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 17:07 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 17:07 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 17:07 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 17:07 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 17:07 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 17:07 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 17:07 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 17:07 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-27D-05282014

Lab Sample ID: 480-60714-30

Date Collected: 05/28/14 10:40

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 17:07 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 17:07 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 17:07 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | | | | 06/02/14 17:07 | 1 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | | | | 06/02/14 17:07 | 1 |

Client Sample ID: 4009-28-05282014

Lab Sample ID: 480-60714-31

Date Collected: 05/28/14 10:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 2.7 | | 1.0 | 0.82 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,1-Dichloroethene | 0.31 | J | 1.0 | 0.29 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 17:29 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 17:29 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 17:29 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 17:29 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 17:29 | 1 |
| Acetone | 3.7 | J | 10 | 3.0 | ug/L | | | 06/02/14 17:29 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 17:29 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 17:29 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 17:29 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 17:29 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 17:29 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 17:29 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 17:29 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 17:29 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 17:29 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 17:29 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 17:29 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 17:29 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 17:29 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 17:29 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 17:29 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-28-05282014

Lab Sample ID: 480-60714-31

Date Collected: 05/28/14 10:10

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 17:29 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 17:29 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 17:29 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 17:29 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 17:29 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 17:29 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 17:29 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 17:29 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 17:29 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 17:29 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 17:29 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 17:29 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 17:29 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 17:29 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 17:29 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 17:29 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 06/02/14 17:29 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 17:29 | 1 |

Client Sample ID: 4009-29S-05282014

Lab Sample ID: 480-60714-32

Date Collected: 05/28/14 10:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 650 | | 10 | 8.2 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,1,2,2-Tetrachloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 10 | 3.1 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,1,2-Trichloroethane | ND | | 10 | 2.3 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,1-Dichloroethane | 35 | | 10 | 3.8 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,1-Dichloroethene | 89 | | 10 | 2.9 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2,3-Trimethylbenzene | ND | | 10 | 2.6 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2,4-Trichlorobenzene | ND | | 10 | 4.1 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2,4-Trimethylbenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2-Dibromo-3-Chloropropane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2-Dibromoethane | ND | | 10 | 7.3 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2-Dichlorobenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2-Dichloroethane | ND | | 10 | 2.1 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,2-Dichloropropane | ND | | 10 | 7.2 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,3,5-Trimethylbenzene | ND | | 10 | 7.7 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,3-Dichlorobenzene | ND | | 10 | 7.8 | ug/L | | | 06/02/14 17:51 | 10 |
| 1,4-Dichlorobenzene | ND | | 10 | 8.4 | ug/L | | | 06/02/14 17:51 | 10 |
| 2-Butanone (MEK) | ND | | 100 | 13 | ug/L | | | 06/02/14 17:51 | 10 |
| 2-Hexanone | ND | | 50 | 12 | ug/L | | | 06/02/14 17:51 | 10 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 50 | 21 | ug/L | | | 06/02/14 17:51 | 10 |
| Acetone | ND | | 100 | 30 | ug/L | | | 06/02/14 17:51 | 10 |
| Benzene | ND | | 10 | 4.1 | ug/L | | | 06/02/14 17:51 | 10 |
| Bromodichloromethane | ND | | 10 | 3.9 | ug/L | | | 06/02/14 17:51 | 10 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-29S-05282014

Lab Sample ID: 480-60714-32

Date Collected: 05/28/14 10:30

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----|-----|------|---|----------|----------------|---------|
| Bromoform | ND | | 10 | 2.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Bromomethane | ND | | 10 | 6.9 | ug/L | | | 06/02/14 17:51 | 10 |
| Carbon disulfide | ND | | 10 | 1.9 | ug/L | | | 06/02/14 17:51 | 10 |
| Carbon tetrachloride | ND | | 10 | 2.7 | ug/L | | | 06/02/14 17:51 | 10 |
| Chlorobenzene | ND | | 10 | 7.5 | ug/L | | | 06/02/14 17:51 | 10 |
| Chloroethane | ND | | 10 | 3.2 | ug/L | | | 06/02/14 17:51 | 10 |
| Chloroform | ND | | 10 | 3.4 | ug/L | | | 06/02/14 17:51 | 10 |
| Chloromethane | ND | | 10 | 3.5 | ug/L | | | 06/02/14 17:51 | 10 |
| cis-1,2-Dichloroethene | 340 | | 10 | 8.1 | ug/L | | | 06/02/14 17:51 | 10 |
| cis-1,3-Dichloropropene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Cyclohexane | ND | | 10 | 1.8 | ug/L | | | 06/02/14 17:51 | 10 |
| Dibromochloromethane | ND | | 10 | 3.2 | ug/L | | | 06/02/14 17:51 | 10 |
| Dichlorodifluoromethane | ND | | 10 | 6.8 | ug/L | | | 06/02/14 17:51 | 10 |
| Ethylbenzene | ND | | 10 | 7.4 | ug/L | | | 06/02/14 17:51 | 10 |
| Isopropylbenzene | ND | | 10 | 7.9 | ug/L | | | 06/02/14 17:51 | 10 |
| Methyl acetate | ND | | 25 | 5.0 | ug/L | | | 06/02/14 17:51 | 10 |
| Methyl tert-butyl ether | ND | | 10 | 1.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Methylcyclohexane | ND | | 10 | 1.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Methylene Chloride | ND | | 10 | 4.4 | ug/L | | | 06/02/14 17:51 | 10 |
| Styrene | ND | | 10 | 7.3 | ug/L | | | 06/02/14 17:51 | 10 |
| Tetrachloroethene | ND | | 10 | 3.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Toluene | ND | | 10 | 5.1 | ug/L | | | 06/02/14 17:51 | 10 |
| trans-1,2-Dichloroethene | ND | | 10 | 9.0 | ug/L | | | 06/02/14 17:51 | 10 |
| trans-1,3-Dichloropropene | ND | | 10 | 3.7 | ug/L | | | 06/02/14 17:51 | 10 |
| Trichloroethene | ND | | 10 | 4.6 | ug/L | | | 06/02/14 17:51 | 10 |
| Trichlorofluoromethane | ND | | 10 | 8.8 | ug/L | | | 06/02/14 17:51 | 10 |
| Vinyl chloride | 15 | | 10 | 9.0 | ug/L | | | 06/02/14 17:51 | 10 |
| Xylenes, Total | ND | | 20 | 6.6 | ug/L | | | 06/02/14 17:51 | 10 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | 06/02/14 17:51 | 10 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 06/02/14 17:51 | 10 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | 06/02/14 17:51 | 10 |

Client Sample ID: 4009-29I-05282014

Lab Sample ID: 480-60714-33

Date Collected: 05/28/14 10:25

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1600 | | 25 | 21 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25 | 7.8 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,1,2-Trichloroethane | ND | | 25 | 5.8 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,1-Dichloroethane | 96 | | 25 | 9.5 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,1-Dichloroethene | 230 | | 25 | 7.3 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2,3-Trimethylbenzene | ND | | 25 | 6.5 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25 | 10 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2,4-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 18:13 | 25 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-291-05282014

Lab Sample ID: 480-60714-33

Date Collected: 05/28/14 10:25

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dibromoethane | ND | | 25 | 18 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2-Dichloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,2-Dichloropropane | ND | | 25 | 18 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,3-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:13 | 25 |
| 1,4-Dichlorobenzene | ND | | 25 | 21 | ug/L | | | 06/02/14 18:13 | 25 |
| 2-Butanone (MEK) | ND | | 250 | 33 | ug/L | | | 06/02/14 18:13 | 25 |
| 2-Hexanone | ND | | 130 | 31 | ug/L | | | 06/02/14 18:13 | 25 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 130 | 53 | ug/L | | | 06/02/14 18:13 | 25 |
| Acetone | ND | | 250 | 75 | ug/L | | | 06/02/14 18:13 | 25 |
| Benzene | ND | | 25 | 10 | ug/L | | | 06/02/14 18:13 | 25 |
| Bromodichloromethane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 18:13 | 25 |
| Bromoform | ND | | 25 | 6.5 | ug/L | | | 06/02/14 18:13 | 25 |
| Bromomethane | ND | | 25 | 17 | ug/L | | | 06/02/14 18:13 | 25 |
| Carbon disulfide | ND | | 25 | 4.8 | ug/L | | | 06/02/14 18:13 | 25 |
| Carbon tetrachloride | ND | | 25 | 6.8 | ug/L | | | 06/02/14 18:13 | 25 |
| Chlorobenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:13 | 25 |
| Chloroethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Chloroform | ND | | 25 | 8.5 | ug/L | | | 06/02/14 18:13 | 25 |
| Chloromethane | ND | | 25 | 8.8 | ug/L | | | 06/02/14 18:13 | 25 |
| cis-1,2-Dichloroethene | 400 | | 25 | 20 | ug/L | | | 06/02/14 18:13 | 25 |
| cis-1,3-Dichloropropene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Cyclohexane | ND | | 25 | 4.5 | ug/L | | | 06/02/14 18:13 | 25 |
| Dibromochloromethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Dichlorodifluoromethane | ND | | 25 | 17 | ug/L | | | 06/02/14 18:13 | 25 |
| Ethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:13 | 25 |
| Isopropylbenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:13 | 25 |
| Methyl acetate | ND | | 63 | 13 | ug/L | | | 06/02/14 18:13 | 25 |
| Methyl tert-butyl ether | ND | | 25 | 4.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Methylcyclohexane | ND | | 25 | 4.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Methylene Chloride | ND | | 25 | 11 | ug/L | | | 06/02/14 18:13 | 25 |
| Styrene | ND | | 25 | 18 | ug/L | | | 06/02/14 18:13 | 25 |
| Tetrachloroethene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 18:13 | 25 |
| Toluene | ND | | 25 | 13 | ug/L | | | 06/02/14 18:13 | 25 |
| trans-1,2-Dichloroethene | ND | | 25 | 23 | ug/L | | | 06/02/14 18:13 | 25 |
| trans-1,3-Dichloropropene | ND | | 25 | 9.3 | ug/L | | | 06/02/14 18:13 | 25 |
| Trichloroethene | 460 | | 25 | 12 | ug/L | | | 06/02/14 18:13 | 25 |
| Trichlorofluoromethane | ND | | 25 | 22 | ug/L | | | 06/02/14 18:13 | 25 |
| Vinyl chloride | 85 | | 25 | 23 | ug/L | | | 06/02/14 18:13 | 25 |
| Xylenes, Total | ND | | 50 | 17 | ug/L | | | 06/02/14 18:13 | 25 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | 06/02/14 18:13 | 25 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | 06/02/14 18:13 | 25 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | 06/02/14 18:13 | 25 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-29D-05282014

Lab Sample ID: 480-60714-34

Date Collected: 05/28/14 10:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 80 | | 1.0 | 0.82 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.1 | | 1.0 | 0.31 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,1-Dichloroethane | 16 | | 1.0 | 0.38 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,1-Dichloroethene | 12 | | 1.0 | 0.29 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 18:35 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 18:35 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 18:35 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 18:35 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 18:35 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 18:35 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 18:35 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 18:35 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 18:35 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 18:35 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 18:35 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 18:35 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 18:35 | 1 |
| Chloroethane | 1.4 | | 1.0 | 0.32 | ug/L | | | 06/02/14 18:35 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 18:35 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 18:35 | 1 |
| cis-1,2-Dichloroethene | 25 | | 1.0 | 0.81 | ug/L | | | 06/02/14 18:35 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 18:35 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 18:35 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 18:35 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 18:35 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 18:35 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 18:35 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 18:35 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 18:35 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 18:35 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 18:35 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 18:35 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 18:35 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 18:35 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 18:35 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 18:35 | 1 |
| Trichloroethene | 17 | | 1.0 | 0.46 | ug/L | | | 06/02/14 18:35 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 18:35 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-29D-05282014

Lab Sample ID: 480-60714-34

Date Collected: 05/28/14 10:20

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | 12 | | 1.0 | 0.90 | ug/L | | | 06/02/14 18:35 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 18:35 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 113 | | 66 - 137 | | | | | 06/02/14 18:35 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 18:35 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 18:35 | 1 |

Client Sample ID: DUP-01-05282014

Lab Sample ID: 480-60714-35

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 1500 | | 25 | 21 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 25 | 7.8 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,1,2-Trichloroethane | ND | | 25 | 5.8 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,1-Dichloroethane | 89 | | 25 | 9.5 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,1-Dichloroethene | 230 | | 25 | 7.3 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2,3-Trimethylbenzene | ND | | 25 | 6.5 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25 | 10 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2,4-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2-Dibromoethane | ND | | 25 | 18 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2-Dichloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,2-Dichloropropane | ND | | 25 | 18 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,3-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:57 | 25 |
| 1,4-Dichlorobenzene | ND | | 25 | 21 | ug/L | | | 06/02/14 18:57 | 25 |
| 2-Butanone (MEK) | ND | | 250 | 33 | ug/L | | | 06/02/14 18:57 | 25 |
| 2-Hexanone | ND | | 130 | 31 | ug/L | | | 06/02/14 18:57 | 25 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 130 | 53 | ug/L | | | 06/02/14 18:57 | 25 |
| Acetone | ND | | 250 | 75 | ug/L | | | 06/02/14 18:57 | 25 |
| Benzene | ND | | 25 | 10 | ug/L | | | 06/02/14 18:57 | 25 |
| Bromodichloromethane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 18:57 | 25 |
| Bromoform | ND | | 25 | 6.5 | ug/L | | | 06/02/14 18:57 | 25 |
| Bromomethane | ND | | 25 | 17 | ug/L | | | 06/02/14 18:57 | 25 |
| Carbon disulfide | ND | | 25 | 4.8 | ug/L | | | 06/02/14 18:57 | 25 |
| Carbon tetrachloride | ND | | 25 | 6.8 | ug/L | | | 06/02/14 18:57 | 25 |
| Chlorobenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:57 | 25 |
| Chloroethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Chloroform | ND | | 25 | 8.5 | ug/L | | | 06/02/14 18:57 | 25 |
| Chloromethane | ND | | 25 | 8.8 | ug/L | | | 06/02/14 18:57 | 25 |
| cis-1,2-Dichloroethene | 380 | | 25 | 20 | ug/L | | | 06/02/14 18:57 | 25 |
| cis-1,3-Dichloropropene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Cyclohexane | ND | | 25 | 4.5 | ug/L | | | 06/02/14 18:57 | 25 |
| Dibromochloromethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Dichlorodifluoromethane | ND | | 25 | 17 | ug/L | | | 06/02/14 18:57 | 25 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: DUP-01-05282014

Lab Sample ID: 480-60714-35

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|------------|-----------|----------|-----|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 18:57 | 25 |
| Isopropylbenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 18:57 | 25 |
| Methyl acetate | ND | | 63 | 13 | ug/L | | | 06/02/14 18:57 | 25 |
| Methyl tert-butyl ether | ND | | 25 | 4.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Methylcyclohexane | ND | | 25 | 4.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Methylene Chloride | ND | | 25 | 11 | ug/L | | | 06/02/14 18:57 | 25 |
| Styrene | ND | | 25 | 18 | ug/L | | | 06/02/14 18:57 | 25 |
| Tetrachloroethene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 18:57 | 25 |
| Toluene | ND | | 25 | 13 | ug/L | | | 06/02/14 18:57 | 25 |
| trans-1,2-Dichloroethene | ND | | 25 | 23 | ug/L | | | 06/02/14 18:57 | 25 |
| trans-1,3-Dichloropropene | ND | | 25 | 9.3 | ug/L | | | 06/02/14 18:57 | 25 |
| Trichloroethene | 430 | | 25 | 12 | ug/L | | | 06/02/14 18:57 | 25 |
| Trichlorofluoromethane | ND | | 25 | 22 | ug/L | | | 06/02/14 18:57 | 25 |
| Vinyl chloride | 78 | | 25 | 23 | ug/L | | | 06/02/14 18:57 | 25 |
| Xylenes, Total | ND | | 50 | 17 | ug/L | | | 06/02/14 18:57 | 25 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 116 | | 66 - 137 | | | | | 06/02/14 18:57 | 25 |
| 4-Bromofluorobenzene (Surr) | 96 | | 73 - 120 | | | | | 06/02/14 18:57 | 25 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | | | | 06/02/14 18:57 | 25 |

Client Sample ID: DUP-02-05282014

Lab Sample ID: 480-60714-36

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 2800 | E | 25 | 21 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,1,2,2-Tetrachloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 16 | J | 25 | 7.8 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,1,2-Trichloroethane | ND | | 25 | 5.8 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,1-Dichloroethane | 110 | | 25 | 9.5 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,1-Dichloroethene | 330 | | 25 | 7.3 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2,3-Trimethylbenzene | ND | | 25 | 6.5 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2,4-Trichlorobenzene | ND | | 25 | 10 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2,4-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2-Dibromo-3-Chloropropane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2-Dibromoethane | ND | | 25 | 18 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2-Dichloroethane | ND | | 25 | 5.3 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,2-Dichloropropane | ND | | 25 | 18 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,3,5-Trimethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,3-Dichlorobenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 19:19 | 25 |
| 1,4-Dichlorobenzene | ND | | 25 | 21 | ug/L | | | 06/02/14 19:19 | 25 |
| 2-Butanone (MEK) | ND | | 250 | 33 | ug/L | | | 06/02/14 19:19 | 25 |
| 2-Hexanone | ND | | 130 | 31 | ug/L | | | 06/02/14 19:19 | 25 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 130 | 53 | ug/L | | | 06/02/14 19:19 | 25 |
| Acetone | ND | | 250 | 75 | ug/L | | | 06/02/14 19:19 | 25 |
| Benzene | ND | | 25 | 10 | ug/L | | | 06/02/14 19:19 | 25 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: DUP-02-05282014

Lab Sample ID: 480-60714-36

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|----|-----|------|---|----------|----------------|---------|
| Bromodichloromethane | ND | | 25 | 9.8 | ug/L | | | 06/02/14 19:19 | 25 |
| Bromoform | ND | | 25 | 6.5 | ug/L | | | 06/02/14 19:19 | 25 |
| Bromomethane | ND | | 25 | 17 | ug/L | | | 06/02/14 19:19 | 25 |
| Carbon disulfide | ND | | 25 | 4.8 | ug/L | | | 06/02/14 19:19 | 25 |
| Carbon tetrachloride | ND | | 25 | 6.8 | ug/L | | | 06/02/14 19:19 | 25 |
| Chlorobenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 19:19 | 25 |
| Chloroethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Chloroform | ND | | 25 | 8.5 | ug/L | | | 06/02/14 19:19 | 25 |
| Chloromethane | ND | | 25 | 8.8 | ug/L | | | 06/02/14 19:19 | 25 |
| cis-1,2-Dichloroethene | 140 | | 25 | 20 | ug/L | | | 06/02/14 19:19 | 25 |
| cis-1,3-Dichloropropene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Cyclohexane | ND | | 25 | 4.5 | ug/L | | | 06/02/14 19:19 | 25 |
| Dibromochloromethane | ND | | 25 | 8.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Dichlorodifluoromethane | ND | | 25 | 17 | ug/L | | | 06/02/14 19:19 | 25 |
| Ethylbenzene | ND | | 25 | 19 | ug/L | | | 06/02/14 19:19 | 25 |
| Isopropylbenzene | ND | | 25 | 20 | ug/L | | | 06/02/14 19:19 | 25 |
| Methyl acetate | ND | | 63 | 13 | ug/L | | | 06/02/14 19:19 | 25 |
| Methyl tert-butyl ether | ND | | 25 | 4.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Methylcyclohexane | ND | | 25 | 4.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Methylene Chloride | ND | | 25 | 11 | ug/L | | | 06/02/14 19:19 | 25 |
| Styrene | ND | | 25 | 18 | ug/L | | | 06/02/14 19:19 | 25 |
| Tetrachloroethene | ND | | 25 | 9.0 | ug/L | | | 06/02/14 19:19 | 25 |
| Toluene | ND | | 25 | 13 | ug/L | | | 06/02/14 19:19 | 25 |
| trans-1,2-Dichloroethene | ND | | 25 | 23 | ug/L | | | 06/02/14 19:19 | 25 |
| trans-1,3-Dichloropropene | ND | | 25 | 9.3 | ug/L | | | 06/02/14 19:19 | 25 |
| Trichloroethene | ND | | 25 | 12 | ug/L | | | 06/02/14 19:19 | 25 |
| Trichlorofluoromethane | ND | | 25 | 22 | ug/L | | | 06/02/14 19:19 | 25 |
| Vinyl chloride | ND | | 25 | 23 | ug/L | | | 06/02/14 19:19 | 25 |
| Xylenes, Total | ND | | 50 | 17 | ug/L | | | 06/02/14 19:19 | 25 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | 06/02/14 19:19 | 25 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | 06/02/14 19:19 | 25 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | 06/02/14 19:19 | 25 |

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|--|-------------|-----------|----|-----|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | 3200 | | 40 | 33 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,1,2,2-Tetrachloroethane | ND | | 40 | 8.4 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 20 J | | 40 | 12 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,1,2-Trichloroethane | ND | | 40 | 9.2 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,1-Dichloroethane | 150 | | 40 | 15 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,1-Dichloroethene | 400 | | 40 | 12 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2,3-Trimethylbenzene | ND | | 40 | 10 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2,4-Trichlorobenzene | ND | | 40 | 16 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2,4-Trimethylbenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2-Dibromo-3-Chloropropane | ND | | 40 | 16 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2-Dibromoethane | ND | | 40 | 29 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2-Dichlorobenzene | ND | | 40 | 32 | ug/L | | | 06/03/14 05:09 | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: DUP-02-05282014

Lab Sample ID: 480-60714-36

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-------------------------------|------------|-----------|-----|-----|------|---|----------|----------------|---------|
| 1,2-Dichloroethane | ND | | 40 | 8.4 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,2-Dichloropropane | ND | | 40 | 29 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,3,5-Trimethylbenzene | ND | | 40 | 31 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,3-Dichlorobenzene | ND | | 40 | 31 | ug/L | | | 06/03/14 05:09 | 40 |
| 1,4-Dichlorobenzene | ND | | 40 | 34 | ug/L | | | 06/03/14 05:09 | 40 |
| 2-Butanone (MEK) | ND | | 400 | 53 | ug/L | | | 06/03/14 05:09 | 40 |
| 2-Hexanone | ND | | 200 | 50 | ug/L | | | 06/03/14 05:09 | 40 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 200 | 84 | ug/L | | | 06/03/14 05:09 | 40 |
| Acetone | ND | | 400 | 120 | ug/L | | | 06/03/14 05:09 | 40 |
| Benzene | ND | | 40 | 16 | ug/L | | | 06/03/14 05:09 | 40 |
| Bromodichloromethane | ND | | 40 | 16 | ug/L | | | 06/03/14 05:09 | 40 |
| Bromoform | ND | | 40 | 10 | ug/L | | | 06/03/14 05:09 | 40 |
| Bromomethane | ND | | 40 | 28 | ug/L | | | 06/03/14 05:09 | 40 |
| Carbon disulfide | ND | | 40 | 7.6 | ug/L | | | 06/03/14 05:09 | 40 |
| Carbon tetrachloride | ND | | 40 | 11 | ug/L | | | 06/03/14 05:09 | 40 |
| Chlorobenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 05:09 | 40 |
| Chloroethane | ND | | 40 | 13 | ug/L | | | 06/03/14 05:09 | 40 |
| Chloroform | ND | | 40 | 14 | ug/L | | | 06/03/14 05:09 | 40 |
| Chloromethane | ND | | 40 | 14 | ug/L | | | 06/03/14 05:09 | 40 |
| cis-1,2-Dichloroethene | 130 | | 40 | 32 | ug/L | | | 06/03/14 05:09 | 40 |
| cis-1,3-Dichloropropene | ND | | 40 | 14 | ug/L | | | 06/03/14 05:09 | 40 |
| Cyclohexane | ND | | 40 | 7.2 | ug/L | | | 06/03/14 05:09 | 40 |
| Dibromochloromethane | ND | | 40 | 13 | ug/L | | | 06/03/14 05:09 | 40 |
| Dichlorodifluoromethane | ND | | 40 | 27 | ug/L | | | 06/03/14 05:09 | 40 |
| Ethylbenzene | ND | | 40 | 30 | ug/L | | | 06/03/14 05:09 | 40 |
| Isopropylbenzene | ND | | 40 | 32 | ug/L | | | 06/03/14 05:09 | 40 |
| Methyl acetate | ND | | 100 | 20 | ug/L | | | 06/03/14 05:09 | 40 |
| Methyl tert-butyl ether | ND | | 40 | 6.4 | ug/L | | | 06/03/14 05:09 | 40 |
| Methylcyclohexane | ND | | 40 | 6.4 | ug/L | | | 06/03/14 05:09 | 40 |
| Methylene Chloride | 50 | | 40 | 18 | ug/L | | | 06/03/14 05:09 | 40 |
| Styrene | ND | | 40 | 29 | ug/L | | | 06/03/14 05:09 | 40 |
| Tetrachloroethene | ND | | 40 | 14 | ug/L | | | 06/03/14 05:09 | 40 |
| Toluene | ND | | 40 | 20 | ug/L | | | 06/03/14 05:09 | 40 |
| trans-1,2-Dichloroethene | ND | | 40 | 36 | ug/L | | | 06/03/14 05:09 | 40 |
| trans-1,3-Dichloropropene | ND | | 40 | 15 | ug/L | | | 06/03/14 05:09 | 40 |
| Trichloroethene | ND | | 40 | 18 | ug/L | | | 06/03/14 05:09 | 40 |
| Trichlorofluoromethane | ND | | 40 | 35 | ug/L | | | 06/03/14 05:09 | 40 |
| Vinyl chloride | ND | | 40 | 36 | ug/L | | | 06/03/14 05:09 | 40 |
| Xylenes, Total | ND | | 80 | 26 | ug/L | | | 06/03/14 05:09 | 40 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | 06/03/14 05:09 | 40 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | 06/03/14 05:09 | 40 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | 06/03/14 05:09 | 40 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: FB-01-05282014

Lab Sample ID: 480-60714-37

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|------------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 19:40 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 19:40 | 1 |
| 2-Butanone (MEK) | 1.3 | J | 10 | 1.3 | ug/L | | | 06/02/14 19:40 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 19:40 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 19:40 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 19:40 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 19:40 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 19:40 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 19:40 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 19:40 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 19:40 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 19:40 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 19:40 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 19:40 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 19:40 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 19:40 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 19:40 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 19:40 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 19:40 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 19:40 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 19:40 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 19:40 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 19:40 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 19:40 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 19:40 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 19:40 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 19:40 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 19:40 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 19:40 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 19:40 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 19:40 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 19:40 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 19:40 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 19:40 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: FB-01-05282014

Lab Sample ID: 480-60714-37

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 19:40 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 19:40 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | | | | 06/02/14 19:40 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | | | | 06/02/14 19:40 | 1 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 | | | | | 06/02/14 19:40 | 1 |

Client Sample ID: TB-01-05282014

Lab Sample ID: 480-60714-38

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 20:02 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 20:02 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 20:02 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 20:02 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 20:02 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 20:02 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 20:02 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 20:02 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 20:02 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 20:02 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 20:02 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 20:02 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 20:02 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 20:02 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 20:02 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 20:02 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 20:02 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 20:02 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 20:02 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 20:02 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 20:02 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: TB-01-05282014

Lab Sample ID: 480-60714-38

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|------|------|---|----------|----------------|---------|
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 20:02 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 20:02 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 20:02 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 20:02 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 20:02 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 20:02 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 20:02 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 20:02 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 20:02 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 20:02 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 20:02 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 20:02 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 20:02 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 20:02 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 20:02 | 1 |
| Surrogate | %Recovery | Qualifier | Limits | | | | Prepared | Analyzed | Dil Fac |
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | | | | 06/02/14 20:02 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | | | | 06/02/14 20:02 | 1 |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | | | | 06/02/14 20:02 | 1 |

Client Sample ID: TB-02-05282014

Lab Sample ID: 480-60714-39

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 20:24 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 20:24 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 20:24 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 20:24 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 20:24 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 20:24 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 20:24 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 20:24 | 1 |

TestAmerica Buffalo

Client Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: TB-02-05282014

Lab Sample ID: 480-60714-39

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

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

| Analyte | Result | Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 20:24 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 20:24 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 20:24 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 20:24 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 20:24 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 20:24 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 20:24 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 20:24 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 20:24 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 20:24 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 20:24 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 20:24 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 20:24 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 20:24 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 20:24 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 20:24 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 20:24 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 20:24 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 20:24 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 20:24 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 20:24 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 20:24 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 20:24 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 20:24 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 20:24 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 20:24 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 20:24 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 20:24 | 1 |

| Surrogate | %Recovery | Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | 06/02/14 20:24 | 1 |
| 4-Bromofluorobenzene (Surr) | 97 | | 73 - 120 | | 06/02/14 20:24 | 1 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 | | 06/02/14 20:24 | 1 |

Surrogate Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Matrix: Water

Prep Type: Total/NA

| Lab Sample ID | Client Sample ID | Percent Surrogate Recovery (Acceptance Limits) | | |
|-------------------|-------------------|--|-----------------|-----------------|
| | | 12DCE (66-137) | BFB (73-120) | TOL (71-126) |
| 480-60714-1 | 4009-1-05282014 | 113 | 99 | 109 |
| 480-60714-2 | 4009-2-05282014 | 117 | 103 | 114 |
| 480-60714-3 | 4009-3-05282014 | 115 | 102 | 110 |
| 480-60714-3 MS | 4009-3-05282014 | 107 | 101 | 104 |
| 480-60714-3 MSD | 4009-3-05282014 | 105 | 104 | 105 |
| 480-60714-4 | 4009-4-05282014 | 114 | 99 | 107 |
| 480-60714-5 | 4009-5-05282014 | 112 | 98 | 109 |
| 480-60714-6 | 4009-6-05282014 | 112 | 96 | 104 |
| 480-60714-7 | 4009-7-05282014 | 114 | 100 | 109 |
| 480-60714-8 | 4009-8-05282014 | 111 | 95 | 106 |
| 480-60714-8 - DL | 4009-8-05282014 | 112 | 96 | 107 |
| 480-60714-9 | 4009-9-05282014 | 111 | 96 | 105 |
| 480-60714-10 | 4009-10-05282014 | 112 | 97 | 105 |
| 480-60714-11 | 4009-11-05282014 | 115 | 96 | 107 |
| 480-60714-12 | 4009-11A-05282014 | 113 | 99 | 108 |
| 480-60714-13 | 4009-12-05282014 | 112 | 98 | 109 |
| 480-60714-14 | 4009-12A-05282014 | 114 | 96 | 107 |
| 480-60714-15 | 4009-13-05282014 | 114 | 98 | 107 |
| 480-60714-16 | 4009-13A-05282014 | 113 | 98 | 107 |
| 480-60714-17 | 4009-14-05282014 | 112 | 96 | 107 |
| 480-60714-18 | 4009-15-05282014 | 114 | 95 | 105 |
| 480-60714-19 | 4009-16-05282014 | 114 | 97 | 106 |
| 480-60714-20 | 4009-16A-05282014 | 112 | 97 | 106 |
| 480-60714-21 | 4009-22-05282014 | 110 | 98 | 106 |
| 480-60714-22 | 4009-23S-05282014 | 115 | 101 | 104 |
| 480-60714-23 | 4009-23D-05282014 | 110 | 94 | 103 |
| 480-60714-24 | 4009-24-05282014 | 110 | 96 | 105 |
| 480-60714-25 | 4009-25S-05282014 | 111 | 97 | 107 |
| 480-60714-26 | 4009-25D-05282014 | 114 | 98 | 109 |
| 480-60714-26 - DL | 4009-25D-05282014 | 113 | 100 | 109 |
| 480-60714-27 | 4009-26-05282014 | 113 | 97 | 107 |
| 480-60714-27 - DL | 4009-26-05282014 | 114 | 100 | 108 |
| 480-60714-28 | 4009-27S-05282014 | 114 | 96 | 107 |
| 480-60714-29 | 4009-27I-05282014 | 114 | 96 | 107 |
| 480-60714-29 MS | 4009-27I-05282014 | 111 | 103 | 106 |
| 480-60714-29 MSD | 4009-27I-05282014 | 110 | 105 | 108 |
| 480-60714-30 | 4009-27D-05282014 | 113 | 97 | 106 |
| 480-60714-31 | 4009-28-05282014 | 113 | 99 | 107 |
| 480-60714-32 | 4009-29S-05282014 | 113 | 96 | 106 |
| 480-60714-33 | 4009-29I-05282014 | 115 | 96 | 107 |
| 480-60714-34 | 4009-29D-05282014 | 113 | 98 | 107 |
| 480-60714-35 | DUP-01-05282014 | 116 | 96 | 108 |
| 480-60714-36 | DUP-02-05282014 | 112 | 99 | 108 |
| 480-60714-36 - DL | DUP-02-05282014 | 115 | 99 | 106 |
| 480-60714-36 MS | DUP-02-05282014 | 112 | 103 | 105 |
| 480-60714-36 MSD | DUP-02-05282014 | 111 | 106 | 105 |
| 480-60714-37 | FB-01-05282014 | 114 | 99 | 108 |
| 480-60714-38 | TB-01-05282014 | 112 | 98 | 107 |
| 480-60714-39 | TB-02-05282014 | 114 | 97 | 106 |

TestAmerica Buffalo

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Matrix: Water

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

| Lab Sample ID | Client Sample ID | 12DCE | BFB | TOL |
|------------------|--------------------|----------|----------|----------|
| | | (66-137) | (73-120) | (71-126) |
| LCS 480-185070/6 | Lab Control Sample | 107 | 103 | 105 |
| LCS 480-185138/6 | Lab Control Sample | 108 | 102 | 105 |
| LCS 480-185288/5 | Lab Control Sample | 110 | 106 | 106 |
| MB 480-185070/8 | Method Blank | 112 | 99 | 109 |
| MB 480-185138/8 | Method Blank | 114 | 98 | 107 |
| MB 480-185288/7 | Method Blank | 115 | 98 | 110 |

Surrogate Legend

12DCE = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

TOL = Toluene-d8 (Surr)

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: MB 480-185070/8

Matrix: Water

Analysis Batch: 185070

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/01/14 23:37 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/01/14 23:37 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/01/14 23:37 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/01/14 23:37 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/01/14 23:37 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/01/14 23:37 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/01/14 23:37 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/01/14 23:37 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/01/14 23:37 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/01/14 23:37 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/01/14 23:37 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/01/14 23:37 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/01/14 23:37 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/01/14 23:37 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/01/14 23:37 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/01/14 23:37 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/01/14 23:37 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/01/14 23:37 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/01/14 23:37 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/01/14 23:37 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/01/14 23:37 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/01/14 23:37 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/01/14 23:37 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/01/14 23:37 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/01/14 23:37 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/01/14 23:37 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/01/14 23:37 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/01/14 23:37 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/01/14 23:37 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/01/14 23:37 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/01/14 23:37 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/01/14 23:37 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/01/14 23:37 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: MB 480-185070/8

Matrix: Water

Analysis Batch: 185070

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/01/14 23:37 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/01/14 23:37 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/01/14 23:37 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 | | 06/01/14 23:37 | 1 |
| 4-Bromofluorobenzene (Surr) | 99 | | 73 - 120 | | 06/01/14 23:37 | 1 |
| Toluene-d8 (Surr) | 109 | | 71 - 126 | | 06/01/14 23:37 | 1 |

Lab Sample ID: LCS 480-185070/6

Matrix: Water

Analysis Batch: 185070

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethane | 25.0 | 28.8 | | ug/L | | 115 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 26.5 | | ug/L | | 106 | 58 - 121 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.1 | | ug/L | | 108 | 76 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 26.8 | | ug/L | | 107 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 26.5 | | ug/L | | 106 | 75 - 127 |
| Benzene | 25.0 | 26.1 | | ug/L | | 105 | 71 - 124 |
| Chlorobenzene | 25.0 | 25.9 | | ug/L | | 104 | 72 - 120 |
| cis-1,2-Dichloroethene | 25.0 | 26.7 | | ug/L | | 107 | 74 - 124 |
| Ethylbenzene | 25.0 | 26.3 | | ug/L | | 105 | 77 - 123 |
| Methyl tert-butyl ether | 25.0 | 27.3 | | ug/L | | 109 | 64 - 127 |
| Tetrachloroethene | 25.0 | 23.6 | | ug/L | | 95 | 74 - 122 |
| Toluene | 25.0 | 25.9 | | ug/L | | 104 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 26.5 | | ug/L | | 106 | 73 - 127 |
| Trichloroethene | 25.0 | 26.1 | | ug/L | | 104 | 74 - 123 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 |

Lab Sample ID: 480-60714-3 MS

Matrix: Water

Analysis Batch: 185070

Client Sample ID: 4009-3-05282014

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1-Dichloroethane | 6.6 | | 25.0 | 37.0 | | ug/L | | 122 | 71 - 129 |
| 1,1-Dichloroethene | 1.1 | | 25.0 | 33.4 | F1 | ug/L | | 129 | 58 - 121 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 31.3 | F1 | ug/L | | 125 | 76 - 121 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 30.4 | | ug/L | | 122 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 30.2 | | ug/L | | 121 | 75 - 127 |
| Benzene | ND | | 25.0 | 31.0 | | ug/L | | 124 | 71 - 124 |
| Chlorobenzene | ND | | 25.0 | 29.9 | | ug/L | | 120 | 72 - 120 |
| cis-1,2-Dichloroethene | 65 | | 25.0 | 98.4 | F1 | ug/L | | 134 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 31.2 | F1 | ug/L | | 125 | 77 - 123 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: 480-60714-3 MS

Client Sample ID: 4009-3-05282014

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 185070

| Analyte | Sample | Sample | Spike | MS | MS | Unit | D | %Rec | %Rec. Limits |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|--------------|
| | Result | Qualifier | Added | Result | Qualifier | | | | |
| Methyl tert-butyl ether | ND | | 25.0 | 30.2 | | ug/L | | 121 | 64 - 127 |
| Tetrachloroethene | ND | | 25.0 | 28.5 | | ug/L | | 114 | 74 - 122 |
| Toluene | ND | | 25.0 | 30.6 | | ug/L | | 122 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 34.0 | F1 | ug/L | | 136 | 73 - 127 |
| Trichloroethene | 15 | | 25.0 | 47.5 | F1 | ug/L | | 129 | 74 - 123 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 107 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 101 | | 73 - 120 |
| Toluene-d8 (Surr) | 104 | | 71 - 126 |

Lab Sample ID: 480-60714-3 MSD

Client Sample ID: 4009-3-05282014

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 185070

| Analyte | Sample | Sample | Spike | MSD | MSD | Unit | D | %Rec | %Rec. Limits | RPD | RPD |
|--------------------------|--------|-----------|-------|--------|-----------|------|---|------|--------------|-----|-------|
| | Result | Qualifier | Added | Result | Qualifier | | | | | RPD | Limit |
| 1,1-Dichloroethane | 6.6 | | 25.0 | 40.5 | F1 | ug/L | | 135 | 71 - 129 | 9 | 20 |
| 1,1-Dichloroethene | 1.1 | | 25.0 | 33.5 | F1 | ug/L | | 130 | 58 - 121 | 0 | 16 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 32.1 | F1 | ug/L | | 129 | 76 - 121 | 3 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 30.7 | | ug/L | | 123 | 80 - 124 | 1 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 30.4 | | ug/L | | 122 | 75 - 127 | 1 | 20 |
| Benzene | ND | | 25.0 | 31.1 | F1 | ug/L | | 125 | 71 - 124 | 0 | 13 |
| Chlorobenzene | ND | | 25.0 | 30.6 | F1 | ug/L | | 122 | 72 - 120 | 2 | 25 |
| cis-1,2-Dichloroethene | 65 | | 25.0 | 93.2 | | ug/L | | 113 | 74 - 124 | 5 | 15 |
| Ethylbenzene | ND | | 25.0 | 31.8 | F1 | ug/L | | 127 | 77 - 123 | 2 | 15 |
| Methyl tert-butyl ether | ND | | 25.0 | 30.5 | | ug/L | | 122 | 64 - 127 | 1 | 37 |
| Tetrachloroethene | ND | | 25.0 | 29.0 | | ug/L | | 116 | 74 - 122 | 2 | 20 |
| Toluene | ND | | 25.0 | 31.0 | F1 | ug/L | | 124 | 80 - 122 | 1 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 33.3 | F1 | ug/L | | 133 | 73 - 127 | 2 | 20 |
| Trichloroethene | 15 | | 25.0 | 46.0 | | ug/L | | 123 | 74 - 123 | 3 | 16 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 104 | | 73 - 120 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 |

Lab Sample ID: MB 480-185138/8

Client Sample ID: Method Blank

Matrix: Water

Prep Type: Total/NA

Analysis Batch: 185138

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|---------------------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 12:10 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: MB 480-185138/8

Matrix: Water

Analysis Batch: 185138

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB Result | MB Qualifier | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|-----------|--------------|-----|------|------|---|----------|----------------|---------|
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 12:10 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 12:10 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 12:10 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 12:10 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 12:10 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 12:10 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 12:10 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 12:10 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 12:10 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 12:10 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 12:10 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 12:10 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 12:10 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 12:10 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 12:10 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 12:10 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 12:10 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 12:10 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 12:10 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 12:10 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 12:10 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 12:10 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 12:10 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 12:10 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 12:10 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 12:10 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 12:10 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 12:10 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 12:10 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 12:10 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 12:10 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 12:10 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 12:10 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 12:10 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 12:10 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 12:10 | 1 |

| Surrogate | MB %Recovery | MB Qualifier | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|--------------|--------------|----------|----------|----------------|---------|
| 1,2-Dichloroethane-d4 (Surr) | 114 | | 66 - 137 | | 06/02/14 12:10 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | 06/02/14 12:10 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: MB 480-185138/8

Matrix: Water

Analysis Batch: 185138

Client Sample ID: Method Blank

Prep Type: Total/NA

| Surrogate | MB MB | | Limits | Prepared | Analyzed | Dil Fac |
|-------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| Toluene-d8 (Surr) | 107 | | 71 - 126 | | 06/02/14 12:10 | 1 |

Lab Sample ID: LCS 480-185138/6

Matrix: Water

Analysis Batch: 185138

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| | | | | | | | |
| 1,1-Dichloroethane | 25.0 | 24.2 | | ug/L | | 97 | 58 - 121 |
| 1,2,4-Trimethylbenzene | 25.0 | 26.1 | | ug/L | | 104 | 76 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 26.0 | | ug/L | | 104 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 26.1 | | ug/L | | 104 | 75 - 127 |
| Benzene | 25.0 | 24.8 | | ug/L | | 99 | 71 - 124 |
| Chlorobenzene | 25.0 | 25.1 | | ug/L | | 100 | 72 - 120 |
| cis-1,2-Dichloroethene | 25.0 | 25.6 | | ug/L | | 102 | 74 - 124 |
| Ethylbenzene | 25.0 | 25.2 | | ug/L | | 101 | 77 - 123 |
| Methyl tert-butyl ether | 25.0 | 26.8 | | ug/L | | 107 | 64 - 127 |
| Tetrachloroethene | 25.0 | 22.3 | | ug/L | | 89 | 74 - 122 |
| Toluene | 25.0 | 24.3 | | ug/L | | 97 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 25.6 | | ug/L | | 102 | 73 - 127 |
| Trichloroethene | 25.0 | 24.8 | | ug/L | | 99 | 74 - 123 |

| Surrogate | LCS LCS | | Limits |
|------------------------------|-----------|-----------|----------|
| | %Recovery | Qualifier | |
| 1,2-Dichloroethane-d4 (Surr) | 108 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 102 | | 73 - 120 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 |

Lab Sample ID: 480-60714-29 MS

Matrix: Water

Analysis Batch: 185138

Client Sample ID: 4009-271-05282014

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| | | | | | | | | | |
| 1,1-Dichloroethane | ND | | 25.0 | 28.8 | | ug/L | | 115 | 58 - 121 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.9 | | ug/L | | 111 | 76 - 121 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 27.3 | | ug/L | | 109 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.7 | | ug/L | | 107 | 75 - 127 |
| Benzene | ND | | 25.0 | 27.7 | | ug/L | | 111 | 71 - 124 |
| Chlorobenzene | ND | | 25.0 | 26.2 | | ug/L | | 105 | 72 - 120 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 27.9 | | ug/L | | 111 | 74 - 124 |
| Ethylbenzene | ND | | 25.0 | 27.6 | | ug/L | | 110 | 77 - 123 |
| Methyl tert-butyl ether | ND | | 25.0 | 26.3 | | ug/L | | 105 | 64 - 127 |
| Tetrachloroethene | ND | | 25.0 | 25.4 | | ug/L | | 101 | 74 - 122 |
| Toluene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 28.9 | | ug/L | | 116 | 73 - 127 |
| Trichloroethene | 1.1 | | 25.0 | 28.6 | | ug/L | | 110 | 74 - 123 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: 480-60714-29 MS

Matrix: Water

Analysis Batch: 185138

Client Sample ID: 4009-271-05282014

Prep Type: Total/NA

| <i>Surrogate</i> | <i>MS</i> <i>%Recovery</i> | <i>MS</i> <i>Qualifier</i> | <i>Limits</i> |
|------------------------------|-------------------------------|-------------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 |

Lab Sample ID: 480-60714-29 MSD

Matrix: Water

Analysis Batch: 185138

Client Sample ID: 4009-271-05282014

Prep Type: Total/NA

| <i>Analyte</i> | <i>Sample</i> <i>Result</i> | <i>Sample</i> <i>Qualifier</i> | <i>Spike</i> <i>Added</i> | <i>MSD</i> <i>Result</i> | <i>MSD</i> <i>Qualifier</i> | <i>Unit</i> | <i>D</i> | <i>%Rec</i> | <i>%Rec.</i> <i>Limits</i> | <i>RPD</i> | <i>RPD</i> <i>Limit</i> |
|--------------------------|--------------------------------|-----------------------------------|------------------------------|-----------------------------|--------------------------------|-------------|----------|-------------|-------------------------------|------------|----------------------------|
| 1,1-Dichloroethane | ND | | 25.0 | 29.3 | | ug/L | | 117 | 71 - 129 | 4 | 20 |
| 1,1-Dichloroethene | ND | | 25.0 | 28.7 | | ug/L | | 115 | 58 - 121 | 1 | 16 |
| 1,2,4-Trimethylbenzene | ND | | 25.0 | 27.5 | | ug/L | | 110 | 76 - 121 | 1 | 20 |
| 1,2-Dichlorobenzene | ND | | 25.0 | 26.9 | | ug/L | | 108 | 80 - 124 | 1 | 20 |
| 1,2-Dichloroethane | ND | | 25.0 | 26.4 | | ug/L | | 106 | 75 - 127 | 1 | 20 |
| Benzene | ND | | 25.0 | 26.8 | | ug/L | | 107 | 71 - 124 | 3 | 13 |
| Chlorobenzene | ND | | 25.0 | 26.6 | | ug/L | | 106 | 72 - 120 | 1 | 25 |
| cis-1,2-Dichloroethene | ND | | 25.0 | 27.1 | | ug/L | | 108 | 74 - 124 | 3 | 15 |
| Ethylbenzene | ND | | 25.0 | 27.9 | | ug/L | | 111 | 77 - 123 | 1 | 15 |
| Methyl tert-butyl ether | ND | | 25.0 | 26.3 | | ug/L | | 105 | 64 - 127 | 0 | 37 |
| Tetrachloroethene | ND | | 25.0 | 25.3 | | ug/L | | 101 | 74 - 122 | 0 | 20 |
| Toluene | ND | | 25.0 | 27.0 | | ug/L | | 108 | 80 - 122 | 0 | 15 |
| trans-1,2-Dichloroethene | ND | | 25.0 | 28.1 | | ug/L | | 112 | 73 - 127 | 3 | 20 |
| Trichloroethene | 1.1 | | 25.0 | 28.7 | | ug/L | | 110 | 74 - 123 | 0 | 16 |

| <i>Surrogate</i> | <i>MSD</i> <i>%Recovery</i> | <i>MSD</i> <i>Qualifier</i> | <i>Limits</i> |
|------------------------------|--------------------------------|--------------------------------|---------------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 105 | | 73 - 120 |
| Toluene-d8 (Surr) | 108 | | 71 - 126 |

Lab Sample ID: MB 480-185288/7

Matrix: Water

Analysis Batch: 185288

Client Sample ID: Method Blank

Prep Type: Total/NA

| <i>Analyte</i> | <i>MB</i> <i>Result</i> | <i>MB</i> <i>Qualifier</i> | <i>RL</i> | <i>MDL</i> | <i>Unit</i> | <i>D</i> | <i>Prepared</i> | <i>Analyzed</i> | <i>Dil Fac</i> |
|---------------------------------------|----------------------------|-------------------------------|-----------|------------|-------------|----------|-----------------|-----------------|----------------|
| 1,1,1-Trichloroethane | ND | | 1.0 | 0.82 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,1,2,2-Tetrachloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | ND | | 1.0 | 0.31 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,1,2-Trichloroethane | ND | | 1.0 | 0.23 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,1-Dichloroethane | ND | | 1.0 | 0.38 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,1-Dichloroethene | ND | | 1.0 | 0.29 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2,3-Trimethylbenzene | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2,4-Trichlorobenzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2,4-Trimethylbenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2-Dibromo-3-Chloropropane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2-Dibromoethane | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2-Dichlorobenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2-Dichloroethane | ND | | 1.0 | 0.21 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,2-Dichloropropane | ND | | 1.0 | 0.72 | ug/L | | | 06/02/14 23:30 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: MB 480-185288/7

Matrix: Water

Analysis Batch: 185288

Client Sample ID: Method Blank

Prep Type: Total/NA

| Analyte | MB | MB | RL | MDL | Unit | D | Prepared | Analyzed | Dil Fac |
|-----------------------------|--------|-----------|-----|------|------|---|----------|----------------|---------|
| | Result | Qualifier | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | | 1.0 | 0.77 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,3-Dichlorobenzene | ND | | 1.0 | 0.78 | ug/L | | | 06/02/14 23:30 | 1 |
| 1,4-Dichlorobenzene | ND | | 1.0 | 0.84 | ug/L | | | 06/02/14 23:30 | 1 |
| 2-Butanone (MEK) | ND | | 10 | 1.3 | ug/L | | | 06/02/14 23:30 | 1 |
| 2-Hexanone | ND | | 5.0 | 1.2 | ug/L | | | 06/02/14 23:30 | 1 |
| 4-Methyl-2-pentanone (MIBK) | ND | | 5.0 | 2.1 | ug/L | | | 06/02/14 23:30 | 1 |
| Acetone | ND | | 10 | 3.0 | ug/L | | | 06/02/14 23:30 | 1 |
| Benzene | ND | | 1.0 | 0.41 | ug/L | | | 06/02/14 23:30 | 1 |
| Bromodichloromethane | ND | | 1.0 | 0.39 | ug/L | | | 06/02/14 23:30 | 1 |
| Bromoform | ND | | 1.0 | 0.26 | ug/L | | | 06/02/14 23:30 | 1 |
| Bromomethane | ND | | 1.0 | 0.69 | ug/L | | | 06/02/14 23:30 | 1 |
| Carbon disulfide | ND | | 1.0 | 0.19 | ug/L | | | 06/02/14 23:30 | 1 |
| Carbon tetrachloride | ND | | 1.0 | 0.27 | ug/L | | | 06/02/14 23:30 | 1 |
| Chlorobenzene | ND | | 1.0 | 0.75 | ug/L | | | 06/02/14 23:30 | 1 |
| Chloroethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 23:30 | 1 |
| Chloroform | ND | | 1.0 | 0.34 | ug/L | | | 06/02/14 23:30 | 1 |
| Chloromethane | ND | | 1.0 | 0.35 | ug/L | | | 06/02/14 23:30 | 1 |
| cis-1,2-Dichloroethene | ND | | 1.0 | 0.81 | ug/L | | | 06/02/14 23:30 | 1 |
| cis-1,3-Dichloropropene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 23:30 | 1 |
| Cyclohexane | ND | | 1.0 | 0.18 | ug/L | | | 06/02/14 23:30 | 1 |
| Dibromochloromethane | ND | | 1.0 | 0.32 | ug/L | | | 06/02/14 23:30 | 1 |
| Dichlorodifluoromethane | ND | | 1.0 | 0.68 | ug/L | | | 06/02/14 23:30 | 1 |
| Ethylbenzene | ND | | 1.0 | 0.74 | ug/L | | | 06/02/14 23:30 | 1 |
| Isopropylbenzene | ND | | 1.0 | 0.79 | ug/L | | | 06/02/14 23:30 | 1 |
| Methyl acetate | ND | | 2.5 | 0.50 | ug/L | | | 06/02/14 23:30 | 1 |
| Methyl tert-butyl ether | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 23:30 | 1 |
| Methylcyclohexane | ND | | 1.0 | 0.16 | ug/L | | | 06/02/14 23:30 | 1 |
| Methylene Chloride | ND | | 1.0 | 0.44 | ug/L | | | 06/02/14 23:30 | 1 |
| Styrene | ND | | 1.0 | 0.73 | ug/L | | | 06/02/14 23:30 | 1 |
| Tetrachloroethene | ND | | 1.0 | 0.36 | ug/L | | | 06/02/14 23:30 | 1 |
| Toluene | ND | | 1.0 | 0.51 | ug/L | | | 06/02/14 23:30 | 1 |
| trans-1,2-Dichloroethene | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 23:30 | 1 |
| trans-1,3-Dichloropropene | ND | | 1.0 | 0.37 | ug/L | | | 06/02/14 23:30 | 1 |
| Trichloroethene | ND | | 1.0 | 0.46 | ug/L | | | 06/02/14 23:30 | 1 |
| Trichlorofluoromethane | ND | | 1.0 | 0.88 | ug/L | | | 06/02/14 23:30 | 1 |
| Vinyl chloride | ND | | 1.0 | 0.90 | ug/L | | | 06/02/14 23:30 | 1 |
| Xylenes, Total | ND | | 2.0 | 0.66 | ug/L | | | 06/02/14 23:30 | 1 |

| Surrogate | MB | MB | Limits | Prepared | Analyzed | Dil Fac |
|------------------------------|-----------|-----------|----------|----------|----------------|---------|
| | %Recovery | Qualifier | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 115 | | 66 - 137 | | 06/02/14 23:30 | 1 |
| 4-Bromofluorobenzene (Surr) | 98 | | 73 - 120 | | 06/02/14 23:30 | 1 |
| Toluene-d8 (Surr) | 110 | | 71 - 126 | | 06/02/14 23:30 | 1 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: LCS 480-185288/5

Matrix: Water

Analysis Batch: 185288

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

| Analyte | Spike Added | LCS Result | LCS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|-------------|------------|---------------|------|---|------|--------------|
| 1,1-Dichloroethane | 25.0 | 27.5 | | ug/L | | 110 | 71 - 129 |
| 1,1-Dichloroethene | 25.0 | 26.8 | | ug/L | | 107 | 58 - 121 |
| 1,2,4-Trimethylbenzene | 25.0 | 27.8 | | ug/L | | 111 | 76 - 121 |
| 1,2-Dichlorobenzene | 25.0 | 27.4 | | ug/L | | 110 | 80 - 124 |
| 1,2-Dichloroethane | 25.0 | 27.0 | | ug/L | | 108 | 75 - 127 |
| Benzene | 25.0 | 26.5 | | ug/L | | 106 | 71 - 124 |
| Chlorobenzene | 25.0 | 25.9 | | ug/L | | 104 | 72 - 120 |
| cis-1,2-Dichloroethene | 25.0 | 27.2 | | ug/L | | 109 | 74 - 124 |
| Ethylbenzene | 25.0 | 26.6 | | ug/L | | 106 | 77 - 123 |
| Methyl tert-butyl ether | 25.0 | 27.8 | | ug/L | | 111 | 64 - 127 |
| Tetrachloroethene | 25.0 | 23.5 | | ug/L | | 94 | 74 - 122 |
| Toluene | 25.0 | 25.8 | | ug/L | | 103 | 80 - 122 |
| trans-1,2-Dichloroethene | 25.0 | 27.0 | | ug/L | | 108 | 73 - 127 |
| Trichloroethene | 25.0 | 26.6 | | ug/L | | 106 | 74 - 123 |

| Surrogate | LCS %Recovery | LCS Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 110 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 106 | | 73 - 120 |
| Toluene-d8 (Surr) | 106 | | 71 - 126 |

Lab Sample ID: 480-60714-36 MS

Matrix: Water

Analysis Batch: 185288

Client Sample ID: DUP-02-05282014

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MS Result | MS Qualifier | Unit | D | %Rec | %Rec. Limits |
|--------------------------|---------------|------------------|-------------|-----------|--------------|------|---|------|--------------|
| 1,1-Dichloroethane | 150 | | 1000 | 1210 | | ug/L | | 106 | 71 - 129 |
| 1,1-Dichloroethene | 400 | | 1000 | 1420 | | ug/L | | 103 | 58 - 121 |
| 1,2,4-Trimethylbenzene | ND | | 1000 | 1080 | | ug/L | | 108 | 76 - 121 |
| 1,2-Dichlorobenzene | ND | | 1000 | 1050 | | ug/L | | 105 | 80 - 124 |
| 1,2-Dichloroethane | ND | | 1000 | 1100 | | ug/L | | 110 | 75 - 127 |
| Benzene | ND | | 1000 | 1080 | | ug/L | | 108 | 71 - 124 |
| Chlorobenzene | ND | | 1000 | 1020 | | ug/L | | 102 | 72 - 120 |
| cis-1,2-Dichloroethene | 130 | | 1000 | 1200 | | ug/L | | 107 | 74 - 124 |
| Ethylbenzene | ND | | 1000 | 1050 | | ug/L | | 105 | 77 - 123 |
| Methyl tert-butyl ether | ND | | 1000 | 1100 | | ug/L | | 110 | 64 - 127 |
| Tetrachloroethene | ND | | 1000 | 961 | | ug/L | | 96 | 74 - 122 |
| Toluene | ND | | 1000 | 1040 | | ug/L | | 104 | 80 - 122 |
| trans-1,2-Dichloroethene | ND | | 1000 | 1110 | | ug/L | | 111 | 73 - 127 |
| Trichloroethene | ND | | 1000 | 1090 | | ug/L | | 109 | 74 - 123 |

| Surrogate | MS %Recovery | MS Qualifier | Limits |
|------------------------------|--------------|--------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 112 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 103 | | 73 - 120 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 |

TestAmerica Buffalo

QC Sample Results

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Lab Sample ID: 480-60714-36 MSD

Matrix: Water

Analysis Batch: 185288

Client Sample ID: DUP-02-05282014

Prep Type: Total/NA

| Analyte | Sample Result | Sample Qualifier | Spike Added | MSD Result | MSD Qualifier | Unit | D | %Rec | %Rec. Limits | RPD | RPD Limit |
|--------------------------|---------------|------------------|-------------|------------|---------------|------|---|------|--------------|-----|-----------|
| 1,1-Dichloroethane | 150 | | 1000 | 1160 | | ug/L | | 101 | 71 - 129 | 4 | 20 |
| 1,1-Dichloroethene | 400 | | 1000 | 1330 | | ug/L | | 93 | 58 - 121 | 7 | 16 |
| 1,2,4-Trimethylbenzene | ND | | 1000 | 1050 | | ug/L | | 105 | 76 - 121 | 3 | 20 |
| 1,2-Dichlorobenzene | ND | | 1000 | 1050 | | ug/L | | 105 | 80 - 124 | 0 | 20 |
| 1,2-Dichloroethane | ND | | 1000 | 1080 | | ug/L | | 108 | 75 - 127 | 2 | 20 |
| Benzene | ND | | 1000 | 1040 | | ug/L | | 104 | 71 - 124 | 4 | 13 |
| Chlorobenzene | ND | | 1000 | 1010 | | ug/L | | 101 | 72 - 120 | 1 | 25 |
| cis-1,2-Dichloroethene | 130 | | 1000 | 1170 | | ug/L | | 104 | 74 - 124 | 3 | 15 |
| Ethylbenzene | ND | | 1000 | 1030 | | ug/L | | 103 | 77 - 123 | 3 | 15 |
| Methyl tert-butyl ether | ND | | 1000 | 1090 | | ug/L | | 109 | 64 - 127 | 1 | 37 |
| Tetrachloroethene | ND | | 1000 | 924 | | ug/L | | 92 | 74 - 122 | 4 | 20 |
| Toluene | ND | | 1000 | 1010 | | ug/L | | 101 | 80 - 122 | 3 | 15 |
| trans-1,2-Dichloroethene | ND | | 1000 | 1080 | | ug/L | | 108 | 73 - 127 | 3 | 20 |
| Trichloroethene | ND | | 1000 | 1030 | | ug/L | | 103 | 74 - 123 | 5 | 16 |

| Surrogate | MSD %Recovery | MSD Qualifier | Limits |
|------------------------------|---------------|---------------|----------|
| 1,2-Dichloroethane-d4 (Surr) | 111 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 106 | | 73 - 120 |
| Toluene-d8 (Surr) | 105 | | 71 - 126 |

QC Association Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

GC/MS VOA

Analysis Batch: 185070

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-60714-1 | 4009-1-05282014 | Total/NA | Water | 8260C | |
| 480-60714-2 | 4009-2-05282014 | Total/NA | Water | 8260C | |
| 480-60714-3 | 4009-3-05282014 | Total/NA | Water | 8260C | |
| 480-60714-3 MS | 4009-3-05282014 | Total/NA | Water | 8260C | |
| 480-60714-3 MSD | 4009-3-05282014 | Total/NA | Water | 8260C | |
| 480-60714-4 | 4009-4-05282014 | Total/NA | Water | 8260C | |
| 480-60714-5 | 4009-5-05282014 | Total/NA | Water | 8260C | |
| 480-60714-6 | 4009-6-05282014 | Total/NA | Water | 8260C | |
| 480-60714-7 | 4009-7-05282014 | Total/NA | Water | 8260C | |
| 480-60714-8 | 4009-8-05282014 | Total/NA | Water | 8260C | |
| 480-60714-9 | 4009-9-05282014 | Total/NA | Water | 8260C | |
| 480-60714-10 | 4009-10-05282014 | Total/NA | Water | 8260C | |
| 480-60714-11 | 4009-11-05282014 | Total/NA | Water | 8260C | |
| 480-60714-12 | 4009-11A-05282014 | Total/NA | Water | 8260C | |
| 480-60714-13 | 4009-12-05282014 | Total/NA | Water | 8260C | |
| 480-60714-14 | 4009-12A-05282014 | Total/NA | Water | 8260C | |
| 480-60714-15 | 4009-13-05282014 | Total/NA | Water | 8260C | |
| 480-60714-16 | 4009-13A-05282014 | Total/NA | Water | 8260C | |
| 480-60714-17 | 4009-14-05282014 | Total/NA | Water | 8260C | |
| 480-60714-18 | 4009-15-05282014 | Total/NA | Water | 8260C | |
| 480-60714-19 | 4009-16-05282014 | Total/NA | Water | 8260C | |
| 480-60714-20 | 4009-16A-05282014 | Total/NA | Water | 8260C | |
| LCS 480-185070/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-185070/8 | Method Blank | Total/NA | Water | 8260C | |

Analysis Batch: 185138

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|------------------|--------------------|-----------|--------|--------|------------|
| 480-60714-8 - DL | 4009-8-05282014 | Total/NA | Water | 8260C | |
| 480-60714-21 | 4009-22-05282014 | Total/NA | Water | 8260C | |
| 480-60714-22 | 4009-23S-05282014 | Total/NA | Water | 8260C | |
| 480-60714-23 | 4009-23D-05282014 | Total/NA | Water | 8260C | |
| 480-60714-24 | 4009-24-05282014 | Total/NA | Water | 8260C | |
| 480-60714-25 | 4009-25S-05282014 | Total/NA | Water | 8260C | |
| 480-60714-26 | 4009-25D-05282014 | Total/NA | Water | 8260C | |
| 480-60714-27 | 4009-26-05282014 | Total/NA | Water | 8260C | |
| 480-60714-28 | 4009-27S-05282014 | Total/NA | Water | 8260C | |
| 480-60714-29 | 4009-27I-05282014 | Total/NA | Water | 8260C | |
| 480-60714-29 MS | 4009-27I-05282014 | Total/NA | Water | 8260C | |
| 480-60714-29 MSD | 4009-27I-05282014 | Total/NA | Water | 8260C | |
| 480-60714-30 | 4009-27D-05282014 | Total/NA | Water | 8260C | |
| 480-60714-31 | 4009-28-05282014 | Total/NA | Water | 8260C | |
| 480-60714-32 | 4009-29S-05282014 | Total/NA | Water | 8260C | |
| 480-60714-33 | 4009-29I-05282014 | Total/NA | Water | 8260C | |
| 480-60714-34 | 4009-29D-05282014 | Total/NA | Water | 8260C | |
| 480-60714-35 | DUP-01-05282014 | Total/NA | Water | 8260C | |
| 480-60714-36 | DUP-02-05282014 | Total/NA | Water | 8260C | |
| 480-60714-37 | FB-01-05282014 | Total/NA | Water | 8260C | |
| 480-60714-38 | TB-01-05282014 | Total/NA | Water | 8260C | |
| 480-60714-39 | TB-02-05282014 | Total/NA | Water | 8260C | |
| LCS 480-185138/6 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-185138/8 | Method Blank | Total/NA | Water | 8260C | |

TestAmerica Buffalo

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

GC/MS VOA (Continued)

Analysis Batch: 185288

| Lab Sample ID | Client Sample ID | Prep Type | Matrix | Method | Prep Batch |
|-------------------|--------------------|-----------|--------|--------|------------|
| 480-60714-26 - DL | 4009-25D-05282014 | Total/NA | Water | 8260C | |
| 480-60714-27 - DL | 4009-26-05282014 | Total/NA | Water | 8260C | |
| 480-60714-36 - DL | DUP-02-05282014 | Total/NA | Water | 8260C | |
| 480-60714-36 MS | DUP-02-05282014 | Total/NA | Water | 8260C | |
| 480-60714-36 MSD | DUP-02-05282014 | Total/NA | Water | 8260C | |
| LCS 480-185288/5 | Lab Control Sample | Total/NA | Water | 8260C | |
| MB 480-185288/7 | Method Blank | Total/NA | Water | 8260C | |

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-1-05282014

Lab Sample ID: 480-60714-1

Date Collected: 05/28/14 15:30

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 00:10 | NQN | TAL BUF |

Client Sample ID: 4009-2-05282014

Lab Sample ID: 480-60714-2

Date Collected: 05/28/14 14:20

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 00:32 | NQN | TAL BUF |

Client Sample ID: 4009-3-05282014

Lab Sample ID: 480-60714-3

Date Collected: 05/28/14 14:50

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 00:54 | NQN | TAL BUF |

Client Sample ID: 4009-4-05282014

Lab Sample ID: 480-60714-4

Date Collected: 05/28/14 14:35

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 01:15 | NQN | TAL BUF |

Client Sample ID: 4009-5-05282014

Lab Sample ID: 480-60714-5

Date Collected: 05/28/14 15:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 5 | 185070 | 06/02/14 01:37 | NQN | TAL BUF |

Client Sample ID: 4009-6-05282014

Lab Sample ID: 480-60714-6

Date Collected: 05/28/14 14:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 01:58 | NQN | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-7-05282014

Lab Sample ID: 480-60714-7

Date Collected: 05/28/14 15:10

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 02:19 | NQN | TAL BUF |

Client Sample ID: 4009-8-05282014

Lab Sample ID: 480-60714-8

Date Collected: 05/28/14 13:50

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 10 | 185070 | 06/02/14 02:41 | NQN | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 20 | 185138 | 06/02/14 12:44 | GTG | TAL BUF |

Client Sample ID: 4009-9-05282014

Lab Sample ID: 480-60714-9

Date Collected: 05/28/14 13:35

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 03:02 | NQN | TAL BUF |

Client Sample ID: 4009-10-05282014

Lab Sample ID: 480-60714-10

Date Collected: 05/28/14 13:25

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 03:24 | NQN | TAL BUF |

Client Sample ID: 4009-11-05282014

Lab Sample ID: 480-60714-11

Date Collected: 05/28/14 13:10

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 03:46 | NQN | TAL BUF |

Client Sample ID: 4009-11A-05282014

Lab Sample ID: 480-60714-12

Date Collected: 05/28/14 13:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 04:07 | NQN | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-12-05282014

Lab Sample ID: 480-60714-13

Date Collected: 05/28/14 12:45

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 04:29 | NQN | TAL BUF |

Client Sample ID: 4009-12A-05282014

Lab Sample ID: 480-60714-14

Date Collected: 05/28/14 12:40

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 04:50 | NQN | TAL BUF |

Client Sample ID: 4009-13-05282014

Lab Sample ID: 480-60714-15

Date Collected: 05/28/14 12:35

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 05:12 | NQN | TAL BUF |

Client Sample ID: 4009-13A-05282014

Lab Sample ID: 480-60714-16

Date Collected: 05/28/14 12:30

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 05:33 | NQN | TAL BUF |

Client Sample ID: 4009-14-05282014

Lab Sample ID: 480-60714-17

Date Collected: 05/28/14 11:55

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 05:55 | NQN | TAL BUF |

Client Sample ID: 4009-15-05282014

Lab Sample ID: 480-60714-18

Date Collected: 05/28/14 11:45

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 06:16 | NQN | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-16-05282014

Lab Sample ID: 480-60714-19

Date Collected: 05/28/14 09:50

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 06:38 | NQN | TAL BUF |

Client Sample ID: 4009-16A-05282014

Lab Sample ID: 480-60714-20

Date Collected: 05/28/14 09:45

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185070 | 06/02/14 06:59 | NQN | TAL BUF |

Client Sample ID: 4009-22-05282014

Lab Sample ID: 480-60714-21

Date Collected: 05/28/14 10:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 13:06 | GTG | TAL BUF |

Client Sample ID: 4009-23S-05282014

Lab Sample ID: 480-60714-22

Date Collected: 05/28/14 11:35

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 13:28 | GTG | TAL BUF |

Client Sample ID: 4009-23D-05282014

Lab Sample ID: 480-60714-23

Date Collected: 05/28/14 11:30

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 10 | 185138 | 06/02/14 13:50 | GTG | TAL BUF |

Client Sample ID: 4009-24-05282014

Lab Sample ID: 480-60714-24

Date Collected: 05/28/14 11:20

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 14:12 | GTG | TAL BUF |

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-25S-05282014

Lab Sample ID: 480-60714-25

Date Collected: 05/28/14 11:10

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 40 | 185138 | 06/02/14 14:34 | GTG | TAL BUF |

Client Sample ID: 4009-25D-05282014

Lab Sample ID: 480-60714-26

Date Collected: 05/28/14 11:05

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 20 | 185138 | 06/02/14 14:56 | GTG | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 40 | 185288 | 06/03/14 04:26 | RAS | TAL BUF |

Client Sample ID: 4009-26-05282014

Lab Sample ID: 480-60714-27

Date Collected: 05/28/14 11:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 2 | 185138 | 06/02/14 15:18 | GTG | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 8 | 185288 | 06/03/14 04:48 | RAS | TAL BUF |

Client Sample ID: 4009-27S-05282014

Lab Sample ID: 480-60714-28

Date Collected: 05/28/14 10:50

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 15:40 | GTG | TAL BUF |

Client Sample ID: 4009-27I-05282014

Lab Sample ID: 480-60714-29

Date Collected: 05/28/14 10:45

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 16:01 | GTG | TAL BUF |

Client Sample ID: 4009-27D-05282014

Lab Sample ID: 480-60714-30

Date Collected: 05/28/14 10:40

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 17:07 | GTG | TAL BUF |

TestAmerica Buffalo

Lab Chronicle

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: 4009-28-05282014

Lab Sample ID: 480-60714-31

Date Collected: 05/28/14 10:10

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 17:29 | GTG | TAL BUF |

Client Sample ID: 4009-29S-05282014

Lab Sample ID: 480-60714-32

Date Collected: 05/28/14 10:30

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 10 | 185138 | 06/02/14 17:51 | GTG | TAL BUF |

Client Sample ID: 4009-29I-05282014

Lab Sample ID: 480-60714-33

Date Collected: 05/28/14 10:25

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 25 | 185138 | 06/02/14 18:13 | GTG | TAL BUF |

Client Sample ID: 4009-29D-05282014

Lab Sample ID: 480-60714-34

Date Collected: 05/28/14 10:20

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 18:35 | GTG | TAL BUF |

Client Sample ID: DUP-01-05282014

Lab Sample ID: 480-60714-35

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 25 | 185138 | 06/02/14 18:57 | GTG | TAL BUF |

Client Sample ID: DUP-02-05282014

Lab Sample ID: 480-60714-36

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 25 | 185138 | 06/02/14 19:19 | GTG | TAL BUF |
| Total/NA | Analysis | 8260C | DL | 40 | 185288 | 06/03/14 05:09 | RAS | TAL BUF |

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Client Sample ID: FB-01-05282014

Lab Sample ID: 480-60714-37

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 19:40 | GTG | TAL BUF |

Client Sample ID: TB-01-05282014

Lab Sample ID: 480-60714-38

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 20:02 | GTG | TAL BUF |

Client Sample ID: TB-02-05282014

Lab Sample ID: 480-60714-39

Date Collected: 05/28/14 00:00

Matrix: Water

Date Received: 05/28/14 23:30

| Prep Type | Batch Type | Batch Method | Run | Dilution Factor | Batch Number | Prepared or Analyzed | Analyst | Lab |
|-----------|------------|--------------|-----|-----------------|--------------|----------------------|---------|---------|
| Total/NA | Analysis | 8260C | | 1 | 185138 | 06/02/14 20:24 | GTG | TAL BUF |

Laboratory References:

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

Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

Laboratory: TestAmerica Buffalo

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

| Authority | Program | EPA Region | Certification ID | Expiration Date |
|----------------|---------------|------------|------------------|-----------------|
| Arkansas DEQ | State Program | 6 | 88-0686 | 07-06-14 |
| California | State Program | 9 | 1169CA | 09-30-14 |
| Connecticut | State Program | 1 | PH-0568 | 09-30-14 |
| Florida | NELAP | 4 | E87672 | 06-30-14 |
| Georgia | State Program | 4 | N/A | 03-31-15 |
| Illinois | NELAP | 5 | 200003 | 09-30-14 |
| Iowa | State Program | 7 | 374 | 03-01-15 |
| Kansas | NELAP | 7 | E-10187 | 01-31-15 |
| Kentucky (DW) | State Program | 4 | 90029 | 12-31-14 |
| Kentucky (UST) | State Program | 4 | 30 | 03-31-15 |
| Louisiana | NELAP | 6 | 02031 | 06-30-14 |
| Maine | State Program | 1 | NY00044 | 12-04-14 |
| Maryland | State Program | 3 | 294 | 03-31-15 |
| Massachusetts | State Program | 1 | M-NY044 | 06-30-14 |
| Michigan | State Program | 5 | 9937 | 03-31-15 |
| Minnesota | NELAP | 5 | 036-999-337 | 12-31-14 |
| New Hampshire | NELAP | 1 | 2337 | 11-17-14 |
| New Jersey | NELAP | 2 | NY455 | 06-30-14 |
| New York | NELAP | 2 | 10026 | 03-31-15 |
| North Dakota | State Program | 8 | R-176 | 03-31-14 * |
| Oklahoma | State Program | 6 | 9421 | 08-31-14 |
| Oregon | NELAP | 10 | NY200003 | 06-09-14 |
| Pennsylvania | NELAP | 3 | 68-00281 | 07-31-14 |
| Rhode Island | State Program | 1 | LAO00328 | 12-30-14 |
| Tennessee | State Program | 4 | TN02970 | 03-31-15 |
| Texas | NELAP | 6 | T104704412-11-2 | 07-31-14 |
| USDA | Federal | | P330-11-00386 | 11-22-14 |
| Virginia | NELAP | 3 | 460185 | 09-14-14 |
| Washington | State Program | 10 | C784 | 02-10-15 |
| Wisconsin | State Program | 5 | 998310390 | 08-31-14 |

* Certification renewal pending - certification considered valid.

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

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

Protocol References:

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

Laboratory References:

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



Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: Vestal Water Supply RSO

TestAmerica Job ID: 480-60714-1

| Lab Sample ID | Client Sample ID | Matrix | Collected | Received |
|---------------|-------------------|--------|----------------|----------------|
| 480-60714-1 | 4009-1-05282014 | Water | 05/28/14 15:30 | 05/28/14 23:30 |
| 480-60714-2 | 4009-2-05282014 | Water | 05/28/14 14:20 | 05/28/14 23:30 |
| 480-60714-3 | 4009-3-05282014 | Water | 05/28/14 14:50 | 05/28/14 23:30 |
| 480-60714-4 | 4009-4-05282014 | Water | 05/28/14 14:35 | 05/28/14 23:30 |
| 480-60714-5 | 4009-5-05282014 | Water | 05/28/14 15:00 | 05/28/14 23:30 |
| 480-60714-6 | 4009-6-05282014 | Water | 05/28/14 14:00 | 05/28/14 23:30 |
| 480-60714-7 | 4009-7-05282014 | Water | 05/28/14 15:10 | 05/28/14 23:30 |
| 480-60714-8 | 4009-8-05282014 | Water | 05/28/14 13:50 | 05/28/14 23:30 |
| 480-60714-9 | 4009-9-05282014 | Water | 05/28/14 13:35 | 05/28/14 23:30 |
| 480-60714-10 | 4009-10-05282014 | Water | 05/28/14 13:25 | 05/28/14 23:30 |
| 480-60714-11 | 4009-11-05282014 | Water | 05/28/14 13:10 | 05/28/14 23:30 |
| 480-60714-12 | 4009-11A-05282014 | Water | 05/28/14 13:00 | 05/28/14 23:30 |
| 480-60714-13 | 4009-12-05282014 | Water | 05/28/14 12:45 | 05/28/14 23:30 |
| 480-60714-14 | 4009-12A-05282014 | Water | 05/28/14 12:40 | 05/28/14 23:30 |
| 480-60714-15 | 4009-13-05282014 | Water | 05/28/14 12:35 | 05/28/14 23:30 |
| 480-60714-16 | 4009-13A-05282014 | Water | 05/28/14 12:30 | 05/28/14 23:30 |
| 480-60714-17 | 4009-14-05282014 | Water | 05/28/14 11:55 | 05/28/14 23:30 |
| 480-60714-18 | 4009-15-05282014 | Water | 05/28/14 11:45 | 05/28/14 23:30 |
| 480-60714-19 | 4009-16-05282014 | Water | 05/28/14 09:50 | 05/28/14 23:30 |
| 480-60714-20 | 4009-16A-05282014 | Water | 05/28/14 09:45 | 05/28/14 23:30 |
| 480-60714-21 | 4009-22-05282014 | Water | 05/28/14 10:00 | 05/28/14 23:30 |
| 480-60714-22 | 4009-23S-05282014 | Water | 05/28/14 11:35 | 05/28/14 23:30 |
| 480-60714-23 | 4009-23D-05282014 | Water | 05/28/14 11:30 | 05/28/14 23:30 |
| 480-60714-24 | 4009-24-05282014 | Water | 05/28/14 11:20 | 05/28/14 23:30 |
| 480-60714-25 | 4009-25S-05282014 | Water | 05/28/14 11:10 | 05/28/14 23:30 |
| 480-60714-26 | 4009-25D-05282014 | Water | 05/28/14 11:05 | 05/28/14 23:30 |
| 480-60714-27 | 4009-26-05282014 | Water | 05/28/14 11:00 | 05/28/14 23:30 |
| 480-60714-28 | 4009-27S-05282014 | Water | 05/28/14 10:50 | 05/28/14 23:30 |
| 480-60714-29 | 4009-27I-05282014 | Water | 05/28/14 10:45 | 05/28/14 23:30 |
| 480-60714-30 | 4009-27D-05282014 | Water | 05/28/14 10:40 | 05/28/14 23:30 |
| 480-60714-31 | 4009-28-05282014 | Water | 05/28/14 10:10 | 05/28/14 23:30 |
| 480-60714-32 | 4009-29S-05282014 | Water | 05/28/14 10:30 | 05/28/14 23:30 |
| 480-60714-33 | 4009-29I-05282014 | Water | 05/28/14 10:25 | 05/28/14 23:30 |
| 480-60714-34 | 4009-29D-05282014 | Water | 05/28/14 10:20 | 05/28/14 23:30 |
| 480-60714-35 | DUP-01-05282014 | Water | 05/28/14 00:00 | 05/28/14 23:30 |
| 480-60714-36 | DUP-02-05282014 | Water | 05/28/14 00:00 | 05/28/14 23:30 |
| 480-60714-37 | FB-01-05282014 | Water | 05/28/14 00:00 | 05/28/14 23:30 |
| 480-60714-38 | TB-01-05282014 | Water | 05/28/14 00:00 | 05/28/14 23:30 |
| 480-60714-39 | TB-02-05282014 | Water | 05/28/14 00:00 | 05/28/14 23:30 |

TestAmerica Albany
 25 Kraft Road
 Albany, NY 12205

Chain of Custody



TestAmerica
 LEADER IN ENVIRONMENTAL TESTING

Client Information
 Client Contact: Ms. Katie Bidwell
 Company: ARCADIS U.S. Inc.
 Address: 855 Route 146 Suite 210
 City: Clifton Park
 State, Zip: NY, 12065
 Phone: 518-250-7360(Tel)
 Email: katie.bidwell@arcadis-us.com
 Project Name: Vestal Water Supply RSO
 Site: PO # 002616401

Sampler: A. Goodrich
 J. Brayer
 Lab Pkt: Fox, Candace L.
 E-Mail: candace.fox@testameric.
 No: 49616-12063.1
 Page 1 of 5

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=grab) | Matrix (W=water, S=solid, O=soil, BT=tissue, A=air) | Field Filtered Sample (Yes or No) | Preservation Code | Total Number of Containers | Special Instructions/Note: | Preservation Codes: A - HCl B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) |
|-----------------------|-------------|-------------|------------------------------|---|-----------------------------------|-------------------|----------------------------|----------------------------|--|
| | | | | | | | | | |
| 4009-1 -05282014 | 05/28/14 | 15:30 | G | Water | | A | 3 | | |
| 4009-2 | | 14:20 | | Water | | | | | |
| 4009-3 | | 14:50 | | Water | | | | | |
| 4009-4 | | 14:35 | | Water | | | | | |
| 4009-5 | | 15:00 | | Water | | | | | |
| 4009-6 | | 14:00 | | Water | | | | | |
| 4009-7 | | 15:10 | | Water | | | | | |
| 4009-8 | | 13:50 | | Water | | | | | |
| 4009-9 | | 13:35 | | Water | | | | | |
| 4009-10 | | 13:25 | | Water | | | | | |
| 4009-11 | | 13:10 | | Water | | | | | |

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

Special Instructions/QC Requirements:

Empty Kit Relinquished by: _____ Date: _____
 Relinquished by: *Katie Bidwell* Date/Time: 5/28/14 2:30
 Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Relinquished by: _____ Date/Time: _____
 Relinquished by: _____ Date/Time: _____

Custody Seals Intact: _____
 Custody Seal No.: _____

Cooler Temperature(s) °C and Other Remarks: 2.9 3.3 #

Chain of Custody Record

| | | | |
|--|--|--|--|
| Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7360(Tel) Email: katie.bidwell@arcadis-us.com Project Name: Vestal Water Supply RSO Site: | | Lab P/M: Fox, Candace L E-Mail: candace.fox@testamericainc.com Carier Tracking No(s): 480-49616-12063.2 Page: Page 2 of 5 Job #: Analysis Requested | |
| Due Date Requested: TAT Requested (days): PO #: 266401 WO #: Project #: 48008914 SSOW#: | | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2SO3 S - H2SO4 T - TSP Dodecylhydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify) | |
| Sample Identification Sample ID: 4009-11A - 05-28-2014 Sample ID: 4009-12 Sample ID: 4009-12A Sample ID: 4009-13 Sample ID: 4009-13A Sample ID: 4009-14 Sample ID: 4009-15 Sample ID: 4009-16 Sample ID: 4009-16A Sample ID: 4009-22 Sample ID: 4009-23S | | Sample Date: 05/28/14 Sample Time: 13:00 Sample Type: G Matrix: Water Field Filtered Sample (Yes or No): 2860C - TCL list OLM04.2 Total Number of Containers: 3 | |
| Possible Hazard Identification <input 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 Deliverable Requested: I, II, III, (V) Other (specify) | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months Special Instructions/QC Requirements: | |
| Empty Kit Relinquished by: Relinquished by: <i>Katie Bidwell</i> Relinquished by: Relinquished by: | | Date: 5/29/14 23:30 Date/Time: 5-29-14 2330 Date/Time: Date/Time: | |
| Custody Seals Intact: A Yes Δ No | | Cooler Temperature(s) °C and Other Remarks: 2.9 3.7 # | |

Chain of Custody Record

| | | | | | |
|--|--|--|--|--|--|
| Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7360(Tel) Email: katie.bidwell@arcadis-us.com Project Name: Vestal Water Supply RSO Site: | | Lab P/N: Fox, Candace L E-Mail: candace.fox@testamericainc.com | | Carrier Tracking No(s): 480-49616-12063.3 Page: Page 3 of 5 Job #: | |
| Due Date Requested: TAT Requested (days): PO #: 266401 WO #: Project #: 48008914 SSOW#: | | Analysis Requested | | | |
| Sample: <i>A. Goodrich</i> J. Brayer Phone: (518) 250-7300 | | Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air) | | Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S D - Nitric Acid E - NaHSO4 F - MeOH G - Anchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: | |
| Sample Identification Sample ID: <i>-05222014</i> Sample Date: <i>05/14/11</i> Sample Time: <i>11:30</i> Sample Type (C=Comp, G=grab): <i>G</i> Matrix: <i>Water</i> Preservation Code: <i>3</i> | | Field Filtered Sample (Yes or No) | | Special Instructions/Note: | |
| 4009-23D 4009-24 4009-25S 4009-25D 4009-26 4009-27S 4009-27I 4009-27D 4009-28 4009-29S 4009-29I | | Sample Date <i>05/14/11</i> <i>11:20</i> <i>11:10</i> <i>11:05</i> <i>11:00</i> <i>10:50</i> <i>10:45</i> <i>10:40</i> <i>10:10</i> <i>10:30</i> <i>10:25</i> | | Matrix <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> <i>Water</i> | |
| Possible Hazard Identification <input 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 | | | | | |
| Deliverable Requested: <input type="checkbox"/> I, <input type="checkbox"/> II, <input checked="" type="checkbox"/> III, <input type="checkbox"/> Other (specify) | | | | | |
| Empty Kit Relinquished by: | | | | | |
| Relinquished by: <i>Katie Bidwell</i> Date/Time: <i>5/19/11 23:30</i> Company: <i>ARCADIS</i> | | | | | |
| Relinquished by: <i>[Signature]</i> Date/Time: <i>5-29-11 2330</i> Company: <i>[Signature]</i> | | | | | |
| Relinquished by: <i>[Signature]</i> Date/Time: <i>[Signature]</i> Company: <i>[Signature]</i> | | | | | |
| Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No Cooler Temperature(s) °C and Other Remarks: <i>2.9 1.3 #1</i> | | | | | |



Chain of Custody Record

| | | | | | | | | | | |
|---|--|--|--|--|--|---|---|--|--|---|
| Client Information Client Contact: Ms. Katie Bidwell Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7360 (Tel) Email: katie.bidwell@arcadis-us.com Project Name: Vestal Water Supply RSO Site: | | Lab PM: Fox, Candace L. E-Mail: candace.fox@testamericainc.com | | Carrier Tracking No(s): COC No: 480-49616-12063.5 Page: Page 5 of 5 Job # | | | | | | |
| Due Date Requested: TAT Requested (days): PO #: 266401 WO #: Project #: 48008914 SSOW#: | | Analysis Requested | | | | | | | | |
| Sample Identification 4009-29D-05282014 DUP-01-05282014 DUP-02-05282014 4009-27I-05282014-MS 4009-27I-05282014-MSD 4009-3-05282014-MS 4009-3-05282014-MSD FB-01-05282014 TB-01-05282014 TB-02-05282014 | | Sample Date 05/28/14 | Sample Time 10:20 10:45 10:45 14:50 14:50 18:50 | Sample Type (C=Comp, G=grab) G | Matrix (W=water, S=solid, O=waste/oil, ET=EtOH, A=Air) Water Water Water Water | Field Filtered Sample (Yes or No) | Perform MS/SP/As of NO. | Total Number of Containers | Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 X - EDTA Z - other (specify) | Special Instructions/Note: |
| Possible Hazard Identification <input 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 | | Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months | | Special Instructions/QC Requirements: | | | | | | |
| Empty Kit Relinquished by: | | Date: | | Method of Shipment: | | | | | | |
| Relinquished by: Jeffrey Brandt | | Date/Time: 5/29/14 23:30 | | Received by: [Signature] | | | | | | |
| Relinquished by: | | Date/Time: | | Received by: | | | | | | |
| Relinquished by: | | Date/Time: | | Received by: | | | | | | |
| Custody Seals Intact: Δ Yes Δ No | | Cooler Temperature(s) °C and Other Remarks: 29, 3.3 #1 | | Company: | | | | | | |



Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-60714-1

Login Number: 60714

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

| Question | Answer | Comment |
|--|--------|---------|
| Radioactivity either was not measured or, if measured, is at or below background | True | |
| The cooler's custody seal, if present, is intact. | True | |
| The cooler or samples do not appear to have been compromised or tampered with. | True | |
| Samples were received on ice. | True | |
| Cooler Temperature is acceptable. | True | |
| Cooler Temperature is recorded. | True | |
| COC is present. | True | |
| COC is filled out in ink and legible. | True | |
| COC is filled out with all pertinent information. | True | |
| Is the Field Sampler's name present on COC? | True | |
| There are no discrepancies between the sample IDs on the containers and the COC. | True | |
| Samples are received within Holding Time. | True | |
| Sample containers have legible labels. | True | |
| Containers are not broken or leaking. | True | |
| Sample collection date/times are provided. | True | |
| Appropriate sample containers are used. | True | |
| Sample bottles are completely filled. | True | |
| Sample Preservation Verified | True | |
| There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs | True | |
| VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter. | True | |
| If necessary, staff have been informed of any short hold time or quick TAT needs | True | |
| Multiphasic samples are not present. | True | |
| Samples do not require splitting or compositing. | True | |
| Sampling Company provided. | True | ARCADIS |
| Samples received within 48 hours of sampling. | True | |
| Samples requiring field filtration have been filtered in the field. | N/A | |
| Chlorine Residual checked. | N/A | |

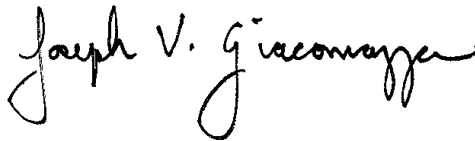


ANALYTICAL REPORT

Job Number: 480-62726-1

Job Description: Vestal Well 1-1A Sampling LMCO

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
7/23/2014 11:30 AM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
07/23/2014

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NHDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

TestAmerica Laboratories, Inc.

TestAmerica Buffalo 10 Hazelwood Drive, Amherst, NY 14228-2298
Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



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Job Narrative
480-62726-1

Receipt

The samples were received on 6/26/2014 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3° C.

GC/MS VOA

Method(s) 8260C: The continuing calibration verification (CCV) associated with batch 191587 recovered above the upper control limit for Bromomethane and Chloroethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The following samples are impacted: (CCVIS 480-191587/2).

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

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

| Lab Sample ID | Client Sample ID | Client Matrix | Date/Time Sampled | Date/Time Received |
|----------------------|-------------------------|----------------------|------------------------------|-------------------------------|
| 480-62726-1 | Well 1-2A | Water | 06/25/2014 1345 | 06/26/2014 0900 |
| 480-62726-2 | Well 1-3 | Water | 06/25/2014 1340 | 06/26/2014 0900 |
| 480-62726-3 | Trip Blank | Water | 06/25/2014 0000 | 06/26/2014 0900 |

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

| Lab Sample ID | Client Sample ID | Result | Qualifier | Reporting Limit | Units | Method |
|---------------|------------------|--------|-----------|-----------------|-------|--------|
|---------------|------------------|--------|-----------|-----------------|-------|--------|

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

| Description | Lab Location | Method | Preparation Method |
|-------------------------------------|--------------|-------------|--------------------|
| Matrix: Water | | | |
| Volatile Organic Compounds by GC/MS | TAL BUF | SW846 8260C | |
| Purge and Trap | TAL BUF | | SW846 5030C |

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

| Method | Analyst | Analyst ID |
|---------------|---------------------|-------------------|
| SW846 8260C | Goliszek, Gregory T | GTG |

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-62726-1

Date Sampled: 06/25/2014 1345

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3053.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1629 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1629 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Well 1-2A

Lab Sample ID: 480-62726-1

Date Sampled: 06/25/2014 1345

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3053.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1629 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1629 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 |
| Toluene-d8 (Surr) | 100 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 102 | | 60 - 140 |

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Well 1-3

Lab Sample ID: 480-62726-2

Date Sampled: 06/25/2014 1340

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3054.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1653 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1653 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Well 1-3

Lab Sample ID: 480-62726-2

Date Sampled: 06/25/2014 1340

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3054.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1653 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1653 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 105 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 93 | | 73 - 120 |
| Toluene-d8 (Surr) | 99 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 100 | | 60 - 140 |

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-62726-3

Date Sampled: 06/25/2014 0000

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3055.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1716 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1716 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|---------------------------------------|---------------|-----------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,2,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Client Sample ID: Trip Blank

Lab Sample ID: 480-62726-3

Date Sampled: 06/25/2014 0000

Client Matrix: Water

Date Received: 06/26/2014 0900

8260C Volatile Organic Compounds by GC/MS

| | | | | | |
|------------------|-----------------|-----------------|------------|------------------------|---------|
| Analysis Method: | 8260C | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Prep Method: | 5030C | Prep Batch: | N/A | Lab File ID: | T3055.D |
| Dilution: | 1.0 | | | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1716 | | | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1716 | | | | |

| Analyte | Result (ug/L) | Qualifier | MDL | RL |
|------------------------|---------------|-----------|------|-----|
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | %Rec | Qualifier | Acceptance Limits |
|------------------------------|------|-----------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 94 | | 73 - 120 |
| Toluene-d8 (Surr) | 99 | | 71 - 126 |
| Dibromofluoromethane (Surr) | 99 | | 60 - 140 |

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Surrogate Recovery Report

8260C Volatile Organic Compounds by GC/MS

Client Matrix: Water

| Lab Sample ID | Client Sample ID | DBFM %Rec | DCA %Rec | TOL %Rec | BFB %Rec |
|------------------|------------------|--------------|-------------|-------------|-------------|
| 480-62726-1 | Well 1-2A | 102 | 105 | 100 | 94 |
| 480-62726-2 | Well 1-3 | 100 | 105 | 99 | 93 |
| 480-62726-3 | Trip Blank | 99 | 104 | 99 | 94 |
| MB 480-191587/7 | | 98 | 104 | 98 | 96 |
| LCS 480-191587/4 | | 101 | 104 | 97 | 98 |

| Surrogate | Acceptance Limits |
|------------------------------------|-------------------|
| DBFM = Dibromofluoromethane (Surr) | 60-140 |
| DCA = 1,2-Dichloroethane-d4 (Surr) | 66-137 |
| TOL = Toluene-d8 (Surr) | 71-126 |
| BFB = 4-Bromofluorobenzene (Surr) | 73-120 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Method Blank - Batch: 480-191587

**Method: 8260C
Preparation: 5030C**

Lab Sample ID: MB 480-191587/7
 Client Matrix: Water
 Dilution: 1.0
 Analysis Date: 07/08/2014 1159
 Prep Date: 07/08/2014 1159
 Leach Date: N/A

Analysis Batch: 480-191587
 Prep Batch: N/A
 Leach Batch: N/A
 Units: ug/L

Instrument ID: HP5975T
 Lab File ID: T3042.D
 Initial Weight/Volume: 5 mL
 Final Weight/Volume: 5 mL

| Analyte | Result | Qual | MDL | RL |
|---------------------------------------|--------|------|------|-----|
| 1,1,1-Trichloroethane | 1.0 | U | 0.82 | 1.0 |
| 1,1,1,2-Tetrachloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 0.31 | 1.0 |
| 1,1,2-Trichloroethane | 1.0 | U | 0.23 | 1.0 |
| 1,1-Dichloroethane | 1.0 | U | 0.38 | 1.0 |
| 1,1-Dichloroethene | 1.0 | U | 0.29 | 1.0 |
| 1,2,4-Trichlorobenzene | 1.0 | U | 0.41 | 1.0 |
| 1,2,4-Trimethylbenzene | 1.0 | U | 0.75 | 1.0 |
| 1,2-Dibromo-3-Chloropropane | 1.0 | U | 0.39 | 1.0 |
| 1,2-Dibromoethane | 1.0 | U | 0.73 | 1.0 |
| 1,2-Dichlorobenzene | 1.0 | U | 0.79 | 1.0 |
| 1,2-Dichloroethane | 1.0 | U | 0.21 | 1.0 |
| 1,2-Dichloropropane | 1.0 | U | 0.72 | 1.0 |
| 1,3,5-Trimethylbenzene | 1.0 | U | 0.77 | 1.0 |
| 1,3-Dichlorobenzene | 1.0 | U | 0.78 | 1.0 |
| 1,4-Dichlorobenzene | 1.0 | U | 0.84 | 1.0 |
| 2-Butanone (MEK) | 10 | U | 1.3 | 10 |
| 2-Hexanone | 5.0 | U | 1.2 | 5.0 |
| 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 2.1 | 5.0 |
| Acetone | 10 | U | 3.0 | 10 |
| Benzene | 1.0 | U | 0.41 | 1.0 |
| Bromodichloromethane | 1.0 | U | 0.39 | 1.0 |
| Bromoform | 1.0 | U | 0.26 | 1.0 |
| Bromomethane | 1.0 | U | 0.69 | 1.0 |
| Carbon disulfide | 1.0 | U | 0.19 | 1.0 |
| Carbon tetrachloride | 1.0 | U | 0.27 | 1.0 |
| Chlorobenzene | 1.0 | U | 0.75 | 1.0 |
| Chloroethane | 1.0 | U | 0.32 | 1.0 |
| Chloroform | 1.0 | U | 0.34 | 1.0 |
| Chloromethane | 1.0 | U | 0.35 | 1.0 |
| cis-1,2-Dichloroethene | 1.0 | U | 0.81 | 1.0 |
| cis-1,3-Dichloropropene | 1.0 | U | 0.36 | 1.0 |
| Cyclohexane | 1.0 | U | 0.18 | 1.0 |
| Dibromochloromethane | 1.0 | U | 0.32 | 1.0 |
| Dichlorodifluoromethane | 1.0 | U | 0.68 | 1.0 |
| Ethylbenzene | 1.0 | U | 0.74 | 1.0 |
| Isopropylbenzene | 1.0 | U | 0.79 | 1.0 |
| Methyl acetate | 2.5 | U | 0.50 | 2.5 |
| Methyl tert-butyl ether | 1.0 | U | 0.16 | 1.0 |
| Methylcyclohexane | 1.0 | U | 0.16 | 1.0 |
| Methylene Chloride | 1.0 | U | 0.44 | 1.0 |
| Styrene | 1.0 | U | 0.73 | 1.0 |
| Tetrachloroethene | 1.0 | U | 0.36 | 1.0 |
| Toluene | 1.0 | U | 0.51 | 1.0 |
| trans-1,2-Dichloroethene | 1.0 | U | 0.90 | 1.0 |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Method Blank - Batch: 480-191587

**Method: 8260C
Preparation: 5030C**

| | | | | | |
|----------------|-----------------|-----------------|------------|------------------------|---------|
| Lab Sample ID: | MB 480-191587/7 | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | T3042.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1159 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1159 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Result | Qual | MDL | RL |
|---------------------------|--------|------|------|-----|
| trans-1,3-Dichloropropene | 1.0 | U | 0.37 | 1.0 |
| Trichloroethene | 1.0 | U | 0.46 | 1.0 |
| Trichlorofluoromethane | 1.0 | U | 0.88 | 1.0 |
| Vinyl chloride | 1.0 | U | 0.90 | 1.0 |
| Xylenes, Total | 2.0 | U | 0.66 | 2.0 |

| Surrogate | % Rec | Acceptance Limits |
|------------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 96 | 73 - 120 |
| Toluene-d8 (Surr) | 98 | 71 - 126 |
| Dibromofluoromethane (Surr) | 98 | 60 - 140 |

Lab Control Sample - Batch: 480-191587

**Method: 8260C
Preparation: 5030C**

| | | | | | |
|----------------|------------------|-----------------|------------|------------------------|---------|
| Lab Sample ID: | LCS 480-191587/4 | Analysis Batch: | 480-191587 | Instrument ID: | HP5975T |
| Client Matrix: | Water | Prep Batch: | N/A | Lab File ID: | T3040.D |
| Dilution: | 1.0 | Leach Batch: | N/A | Initial Weight/Volume: | 5 mL |
| Analysis Date: | 07/08/2014 1111 | Units: | ug/L | Final Weight/Volume: | 5 mL |
| Prep Date: | 07/08/2014 1111 | | | | |
| Leach Date: | N/A | | | | |

| Analyte | Spike Amount | Result | % Rec. | Limit | Qual |
|--------------------------|--------------|--------|--------|----------|------|
| 1,1-Dichloroethane | 25.0 | 26.2 | 105 | 71 - 129 | |
| 1,1-Dichloroethene | 25.0 | 24.0 | 96 | 58 - 121 | |
| 1,2,4-Trimethylbenzene | 25.0 | 24.5 | 98 | 76 - 121 | |
| 1,2-Dichlorobenzene | 25.0 | 24.4 | 98 | 80 - 124 | |
| 1,2-Dichloroethane | 25.0 | 26.1 | 104 | 75 - 127 | |
| Benzene | 25.0 | 24.7 | 99 | 71 - 124 | |
| Chlorobenzene | 25.0 | 24.4 | 98 | 72 - 120 | |
| cis-1,2-Dichloroethene | 25.0 | 24.8 | 99 | 74 - 124 | |
| Ethylbenzene | 25.0 | 24.6 | 99 | 77 - 123 | |
| Methyl tert-butyl ether | 25.0 | 26.1 | 104 | 64 - 127 | |
| Tetrachloroethene | 25.0 | 23.3 | 93 | 74 - 122 | |
| Toluene | 25.0 | 24.0 | 96 | 80 - 122 | |
| trans-1,2-Dichloroethene | 25.0 | 23.8 | 95 | 73 - 127 | |
| Trichloroethene | 25.0 | 25.2 | 101 | 74 - 123 | |

| Surrogate | % Rec | Acceptance Limits |
|------------------------------|-------|-------------------|
| 1,2-Dichloroethane-d4 (Surr) | 104 | 66 - 137 |
| 4-Bromofluorobenzene (Surr) | 98 | 73 - 120 |
| Toluene-d8 (Surr) | 97 | 71 - 126 |
| Dibromofluoromethane (Surr) | 101 | 60 - 140 |

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

| Lab Section | Qualifier | Description |
|-------------|-----------|--------------------------------|
| GC/MS VOA | U | Analyzed for but not detected. |

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

QC Association Summary

| Lab Sample ID | Client Sample ID | Report Basis | Client Matrix | Method | Prep Batch |
|----------------------------------|--------------------|--------------|---------------|--------|------------|
| GC/MS VOA | | | | | |
| Analysis Batch:480-191587 | | | | | |
| LCS 480-191587/4 | Lab Control Sample | T | Water | 8260C | |
| MB 480-191587/7 | Method Blank | T | Water | 8260C | |
| 480-62726-1 | Well 1-2A | T | Water | 8260C | |
| 480-62726-2 | Well 1-3 | T | Water | 8260C | |
| 480-62726-3 | Trip Blank | T | Water | 8260C | |

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Laboratory Chronicle

Lab ID: 480-62726-1

Client ID: Well 1-2A

Sample Date/Time: 06/25/2014 13:45

Received Date/Time: 06/26/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-62726-A-1 | | 480-191587 | | 07/08/2014 16:29 | 1 | TAL BUF | GTG |
| A:8260C | 480-62726-A-1 | | 480-191587 | | 07/08/2014 16:29 | 1 | TAL BUF | GTG |

Lab ID: 480-62726-2

Client ID: Well 1-3

Sample Date/Time: 06/25/2014 13:40

Received Date/Time: 06/26/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-62726-A-2 | | 480-191587 | | 07/08/2014 16:53 | 1 | TAL BUF | GTG |
| A:8260C | 480-62726-A-2 | | 480-191587 | | 07/08/2014 16:53 | 1 | TAL BUF | GTG |

Lab ID: 480-62726-3

Client ID: Trip Blank

Sample Date/Time: 06/25/2014 00:00

Received Date/Time: 06/26/2014 09:00

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|---------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | 480-62726-A-3 | | 480-191587 | | 07/08/2014 17:16 | 1 | TAL BUF | GTG |
| A:8260C | 480-62726-A-3 | | 480-191587 | | 07/08/2014 17:16 | 1 | TAL BUF | GTG |

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|-----------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | MB 480-191587/7 | | 480-191587 | | 07/08/2014 11:59 | 1 | TAL BUF | GTG |
| A:8260C | MB 480-191587/7 | | 480-191587 | | 07/08/2014 11:59 | 1 | TAL BUF | GTG |

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

| Method | Bottle ID | Run | Analysis Batch | Prep Batch | Date Prepared / Analyzed | Dil | Lab | Analyst |
|---------|------------------|-----|----------------|------------|--------------------------|-----|---------|---------|
| P:5030C | LCS 480-191587/4 | | 480-191587 | | 07/08/2014 11:11 | 1 | TAL BUF | GTG |
| A:8260C | LCS 480-191587/4 | | 480-191587 | | 07/08/2014 11:11 | 1 | TAL BUF | GTG |

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
 Project/Site: Vestal Well 1-1A Sampling LMCO

TestAmerica Job ID: 480-62726-1

| Laboratory | Authority | Program | EPA Region | Certification ID |
|---------------------|----------------|---------------|------------|------------------|
| TestAmerica Buffalo | Arkansas DEQ | State Program | 6 | 88-0686 |
| TestAmerica Buffalo | California | State Program | 9 | 1169CA |
| TestAmerica Buffalo | Connecticut | State Program | 1 | PH-0568 |
| TestAmerica Buffalo | Florida | NELAP | 4 | E87672 |
| TestAmerica Buffalo | Georgia | State Program | 4 | 956 |
| TestAmerica Buffalo | Georgia | State Program | 4 | N/A |
| TestAmerica Buffalo | Illinois | NELAP | 5 | 200003 |
| TestAmerica Buffalo | Iowa | State Program | 7 | 374 |
| TestAmerica Buffalo | Kansas | NELAP | 7 | E-10187 |
| TestAmerica Buffalo | Kentucky (DW) | State Program | 4 | 90029 |
| TestAmerica Buffalo | Kentucky (UST) | State Program | 4 | 30 |
| TestAmerica Buffalo | Louisiana | NELAP | 6 | 02031 |
| TestAmerica Buffalo | Maine | State Program | 1 | NY00044 |
| TestAmerica Buffalo | Maryland | State Program | 3 | 294 |
| TestAmerica Buffalo | Massachusetts | State Program | 1 | M-NY044 |
| TestAmerica Buffalo | Michigan | State Program | 5 | 9937 |
| TestAmerica Buffalo | Minnesota | NELAP | 5 | 036-999-337 |
| TestAmerica Buffalo | New Hampshire | NELAP | 1 | 2337 |
| TestAmerica Buffalo | New Hampshire | NELAP | 1 | 2973 |
| TestAmerica Buffalo | New Jersey | NELAP | 2 | NY455 |
| TestAmerica Buffalo | New York | NELAP | 2 | 10026 |
| TestAmerica Buffalo | North Dakota | State Program | 8 | R-176 |
| TestAmerica Buffalo | Oklahoma | State Program | 6 | 9421 |
| TestAmerica Buffalo | Oregon | NELAP | 10 | NY200003 |
| TestAmerica Buffalo | Pennsylvania | NELAP | 3 | 68-00281 |
| TestAmerica Buffalo | Rhode Island | State Program | 1 | LAO00328 |
| TestAmerica Buffalo | Tennessee | State Program | 4 | TN02970 |
| TestAmerica Buffalo | Texas | NELAP | 6 | T104704412-11-2 |
| TestAmerica Buffalo | USDA | Federal | | P330-11-00386 |
| TestAmerica Buffalo | Virginia | NELAP | 3 | 460185 |
| TestAmerica Buffalo | Washington | State Program | 10 | C784 |
| TestAmerica Buffalo | Wisconsin | State Program | 5 | 998310390 |

Accreditation may not be offered or required for all methods and analytes reported in this package. Please contact your project manager for the laboratory's current list of certified methods and analytes.

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): ZB-624 (60) ID: 0.25 (mm)

| Client Sample ID | Lab Sample ID | DBFM # | DCA # | TOL # | BFB # |
|------------------|------------------|--------|-------|-------|-------|
| Well 1-2A | 480-62726-1 | 102 | 105 | 100 | 94 |
| Well 1-3 | 480-62726-2 | 100 | 105 | 99 | 93 |
| Trip Blank | 480-62726-3 | 99 | 104 | 99 | 94 |
| | MB 480-191587/7 | 98 | 104 | 98 | 96 |
| | LCS 480-191587/4 | 101 | 104 | 97 | 98 |

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

QC LIMITS
60-140
66-137
71-126
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T3040.D
 Lab ID: LCS 480-191587/4 Client ID: _____

| COMPOUND | SPIKE ADDED (ug/L) | LCS CONCENTRATION (ug/L) | LCS % REC | QC LIMITS REC | # |
|--------------------------|--------------------------|--------------------------------|-----------------|---------------------|---|
| 1,1-Dichloroethane | 25.0 | 26.2 | 105 | 71-129 | |
| 1,1-Dichloroethene | 25.0 | 24.0 | 96 | 58-121 | |
| 1,2,4-Trimethylbenzene | 25.0 | 24.5 | 98 | 76-121 | |
| 1,2-Dichlorobenzene | 25.0 | 24.4 | 98 | 80-124 | |
| 1,2-Dichloroethane | 25.0 | 26.1 | 104 | 75-127 | |
| Benzene | 25.0 | 24.7 | 99 | 71-124 | |
| Chlorobenzene | 25.0 | 24.4 | 98 | 72-120 | |
| cis-1,2-Dichloroethene | 25.0 | 24.8 | 99 | 74-124 | |
| Ethylbenzene | 25.0 | 24.6 | 99 | 77-123 | |
| Methyl tert-butyl ether | 25.0 | 26.1 | 104 | 64-127 | |
| Tetrachloroethene | 25.0 | 23.3 | 93 | 74-122 | |
| Toluene | 25.0 | 24.0 | 96 | 80-122 | |
| trans-1,2-Dichloroethene | 25.0 | 23.8 | 95 | 73-127 | |
| Trichloroethene | 25.0 | 25.2 | 101 | 74-123 | |

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
SDG No.: _____
Lab File ID: T3042.D Lab Sample ID: MB 480-191587/7
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 07/08/2014 11:59
GC Column: ZB-624 (60) ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|------------------|------------------|----------------|------------------|
| | LCS 480-191587/4 | T3040.D | 07/08/2014 11:11 |
| Well 1-2A | 480-62726-1 | T3053.D | 07/08/2014 16:29 |
| Well 1-3 | 480-62726-2 | T3054.D | 07/08/2014 16:53 |
| Trip Blank | 480-62726-3 | T3055.D | 07/08/2014 17:16 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Lab File ID: T2719.D BFB Injection Date: 06/27/2014
 Instrument ID: HP5975T BFB Injection Time: 13:16
 Analysis Batch No.: 190242

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0 % of mass 95 | 22.0 |
| 75 | 30.0 - 60.0 % of mass 95 | 49.8 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0 % of mass 95 | 7.1 |
| 173 | Less than 2.0 % of mass 174 | 0.6 (0.8)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 78.5 |
| 175 | 5.0 - 9.0 % of mass 174 | 5.4 (6.9)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 78.2 (99.6)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.0 (6.4)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
| | IC 480-190242/8 | T2721.D | 06/27/2014 | 14:16 |
| | IC 480-190242/9 | T2722.D | 06/27/2014 | 14:39 |
| | IC 480-190242/10 | T2723.D | 06/27/2014 | 15:03 |
| | IC 480-190242/11 | T2724.D | 06/27/2014 | 15:27 |
| | ICIS 480-190242/12 | T2725.D | 06/27/2014 | 15:51 |
| | IC 480-190242/13 | T2726.D | 06/27/2014 | 16:15 |
| | IC 480-190242/14 | T2727.D | 06/27/2014 | 16:39 |

FORM V
GC/MS VOA INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Lab File ID: T3037.D BFB Injection Date: 07/08/2014
 Instrument ID: HP5975T BFB Injection Time: 09:33
 Analysis Batch No.: 191587

| M/E | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50 | 15.0 - 40.0 % of mass 95 | 27.5 |
| 75 | 30.0 - 60.0 % of mass 95 | 55.8 |
| 95 | Base Peak, 100% relative abundance | 100.0 |
| 96 | 5.0 - 9.0 % of mass 95 | 6.4 |
| 173 | Less than 2.0 % of mass 174 | 0.7 (0.9)1 |
| 174 | 50.0 - 120.00 % of mass 95 | 80.0 |
| 175 | 5.0 - 9.0 % of mass 174 | 6.3 (7.8)1 |
| 176 | 95.0 - 101.0 % of mass 174 | 77.8 (97.3)1 |
| 177 | 5.0 - 9.0 % of mass 176 | 5.5 (7.0)2 |

1-Value is % mass 174

2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS AND STANDARDS:

| CLIENT SAMPLE ID | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|------------------|--------------------|-------------|---------------|---------------|
| | CCVIS 480-191587/2 | T3038.D | 07/08/2014 | 09:59 |
| | LCS 480-191587/4 | T3040.D | 07/08/2014 | 11:11 |
| | MB 480-191587/7 | T3042.D | 07/08/2014 | 11:59 |
| Well 1-2A | 480-62726-1 | T3053.D | 07/08/2014 | 16:29 |
| Well 1-3 | 480-62726-2 | T3054.D | 07/08/2014 | 16:53 |
| Trip Blank | 480-62726-3 | T3055.D | 07/08/2014 | 17:16 |

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Sample No.: ICIS 480-190242/12 Date Analyzed: 06/27/2014 15:51
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25(mm)
 Lab File ID (Standard): T2725.D Heated Purge: (Y/N) N
 Calibration ID: 19161

| | FB | | CBZ | | DCB | |
|-------------------------------|------------------|------|--------|------|--------|------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # |
| INITIAL CALIBRATION MID-POINT | 601471 | 4.34 | 447660 | 6.64 | 238937 | 8.49 |
| UPPER LIMIT | 1202942 | 4.84 | 895320 | 7.14 | 477874 | 8.99 |
| LOWER LIMIT | 300736 | 3.84 | 223830 | 6.14 | 119469 | 7.99 |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | |
| CCVIS 480-191587/2 | 477087 | 4.34 | 382827 | 6.64 | 195380 | 8.49 |

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
GC/MS VOA INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Sample No.: CCVIS 480-191587/2 Date Analyzed: 07/08/2014 09:59
 Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm)
 Lab File ID (Standard): T3038.D Heated Purge: (Y/N) N
 Calibration ID: 19164

| | FB | | CBZ | | DCB | | |
|------------------|------------------|--------|--------|--------|--------|--------|------|
| | AREA # | RT # | AREA # | RT # | AREA # | RT # | |
| 12/24 HOUR STD | 477087 | 4.34 | 382827 | 6.64 | 195380 | 8.49 | |
| UPPER LIMIT | 954174 | 4.84 | 765654 | 7.14 | 390760 | 8.99 | |
| LOWER LIMIT | 238544 | 3.84 | 191414 | 6.14 | 97690 | 7.99 | |
| LAB SAMPLE ID | CLIENT SAMPLE ID | | | | | | |
| LCS 480-191587/4 | 479054 | 4.34 | 369783 | 6.64 | 195785 | 8.49 | |
| MB 480-191587/7 | 447471 | 4.34 | 341762 | 6.64 | 160111 | 8.49 | |
| 480-62726-1 | Well 1-2A | 431643 | 4.34 | 328154 | 6.64 | 156283 | 8.49 |
| 480-62726-2 | Well 1-3 | 423642 | 4.34 | 333609 | 6.64 | 156329 | 8.49 |
| 480-62726-3 | Trip Blank | 430673 | 4.34 | 326480 | 6.64 | 160210 | 8.49 |

FB = Fluorobenzene (IS)
 CBZ = Chlorobenzene-d5
 DCB = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area
 RT Limit = ± 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Well 1-2A Lab Sample ID: 480-62726-1
 Matrix: Water Lab File ID: T3053.D
 Analysis Method: 8260C Date Collected: 06/25/2014 13:45
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 16:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Well 1-2A Lab Sample ID: 480-62726-1
 Matrix: Water Lab File ID: T3053.D
 Analysis Method: 8260C Date Collected: 06/25/2014 13:45
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 16:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 100 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 102 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3053.D
 Lims ID: 480-62726-A-1 Lab Sample ID: 480-62726-1
 Client ID: Well 1-2A
 Sample Type: Client
 Inject. Date: 08-Jul-2014 16:29:30 ALS Bottle#: 46 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-62726-A-1
 Misc. Info.: 480-0033584-019
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 19:56:03 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goliszekg

Date: 08-Jul-2014 19:56:03

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 98 | 431643 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 88 | 328154 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 95 | 156283 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 56 | 111143 | 25.4 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 144029 | 26.2 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 96 | 414943 | 25.1 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 90 | 115133 | 23.6 | |
| 11 Dichlorodifluoromethane | 85 | | 0.905 | | | | ND | |
| 13 Chloromethane | 50 | | 1.019 | | | | ND | |
| 14 Vinyl chloride | 62 | | 1.102 | | | | ND | |
| 15 Bromomethane | 94 | | 1.320 | | | | ND | |
| 16 Chloroethane | 64 | | 1.382 | | | | ND | |
| 17 Trichlorofluoromethane | 101 | | 1.537 | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 1.962 | | | | ND | |
| 22 1,1-Dichloroethene | 96 | | 1.962 | | | | ND | |
| 25 Carbon disulfide | 76 | | 2.118 | | | | ND | |
| 23 Acetone | 43 | | 2.118 | | | | ND | |
| 28 Methyl acetate | 43 | | 2.377 | | | | ND | |
| 30 Methylene Chloride | 84 | | 2.429 | | | | ND | |
| 32 trans-1,2-Dichloroethene | 96 | | 2.625 | | | | ND | |
| 33 Methyl tert-butyl ether | 73 | | 2.636 | | | | ND | |
| 36 1,1-Dichloroethane | 63 | | 2.999 | | | | ND | |
| 43 cis-1,2-Dichloroethene | 96 | | 3.475 | | | | ND | |
| 44 2-Butanone (MEK) | 43 | | 3.537 | | | | ND | |
| 50 Chloroform | 83 | | 3.734 | | | | ND | |
| 52 Cyclohexane | 56 | | 3.817 | | | | ND | |
| 51 1,1,1-Trichloroethane | 97 | | 3.817 | | | | ND | |
| 53 Carbon tetrachloride | 117 | | 3.931 | | | | ND | |
| 55 Benzene | 78 | | 4.118 | | | | ND | |
| 57 1,2-Dichloroethane | 62 | | 4.170 | | | | ND | |
| 1 1,4-Difluorobenzene | 114 | | 4.429 | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|----------------|-------|
| 60 Trichloroethene | 95 | | 4.605 | | | | ND | |
| 62 Methylcyclohexane | 83 | | 4.688 | | | | ND | |
| 63 1,2-Dichloropropane | 63 | | 4.802 | | | | ND | |
| 67 Dichlorobromomethane | 83 | | 5.019 | | | | ND | |
| 71 cis-1,3-Dichloropropene | 75 | | 5.351 | | | | ND | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | | 5.475 | | | | ND | |
| 73 Toluene | 92 | | 5.569 | | | | ND | |
| 75 trans-1,3-Dichloropropene | 75 | | 5.786 | | | | ND | |
| 78 1,1,2-Trichloroethane | 83 | | 5.931 | | | | ND | |
| 79 Tetrachloroethene | 166 | | 5.962 | | | | ND | |
| 81 2-Hexanone | 43 | | 6.118 | | | | ND | |
| 82 Chlorodibromomethane | 129 | | 6.221 | | | | ND | |
| 83 Ethylene Dibromide | 107 | | 6.294 | | | | ND | |
| 86 Chlorobenzene | 112 | | 6.657 | | | | ND | |
| 88 Ethylbenzene | 91 | | 6.729 | | | | ND | |
| 90 m-Xylene & p-Xylene | 106 | | 6.822 | | | | ND | |
| 91 o-Xylene | 106 | | 7.133 | | | | ND | |
| 92 Styrene | 104 | | 7.154 | | | | ND | |
| 93 Bromoform | 173 | | 7.330 | | | | ND | |
| 95 Isopropylbenzene | 105 | | 7.413 | | | | ND | |
| 98 1,1,2,2-Tetrachloroethane | 83 | | 7.724 | | | | ND | |
| 104 1,3,5-Trimethylbenzene | 105 | | 7.890 | | | | ND | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.190 | | | | ND | |
| 110 1,3-Dichlorobenzene | 146 | | 8.429 | | | | ND | |
| 113 1,4-Dichlorobenzene | 146 | | 8.501 | | | | ND | |
| 116 1,2-Dichlorobenzene | 146 | | 8.812 | | | | ND | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 9.486 | | | | ND | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.118 | | | | ND | |
| S 126 Xylenes, Total | 1 | | 30.000 | | | | 0 | |

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00077

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3053.D

Injection Date: 08-Jul-2014 16:29:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: 480-62726-A-1

Lab Sample ID: 480-62726-1

Worklist Smp#: 19

Client ID: Well 1-2A

Purge Vol: 5.000 mL

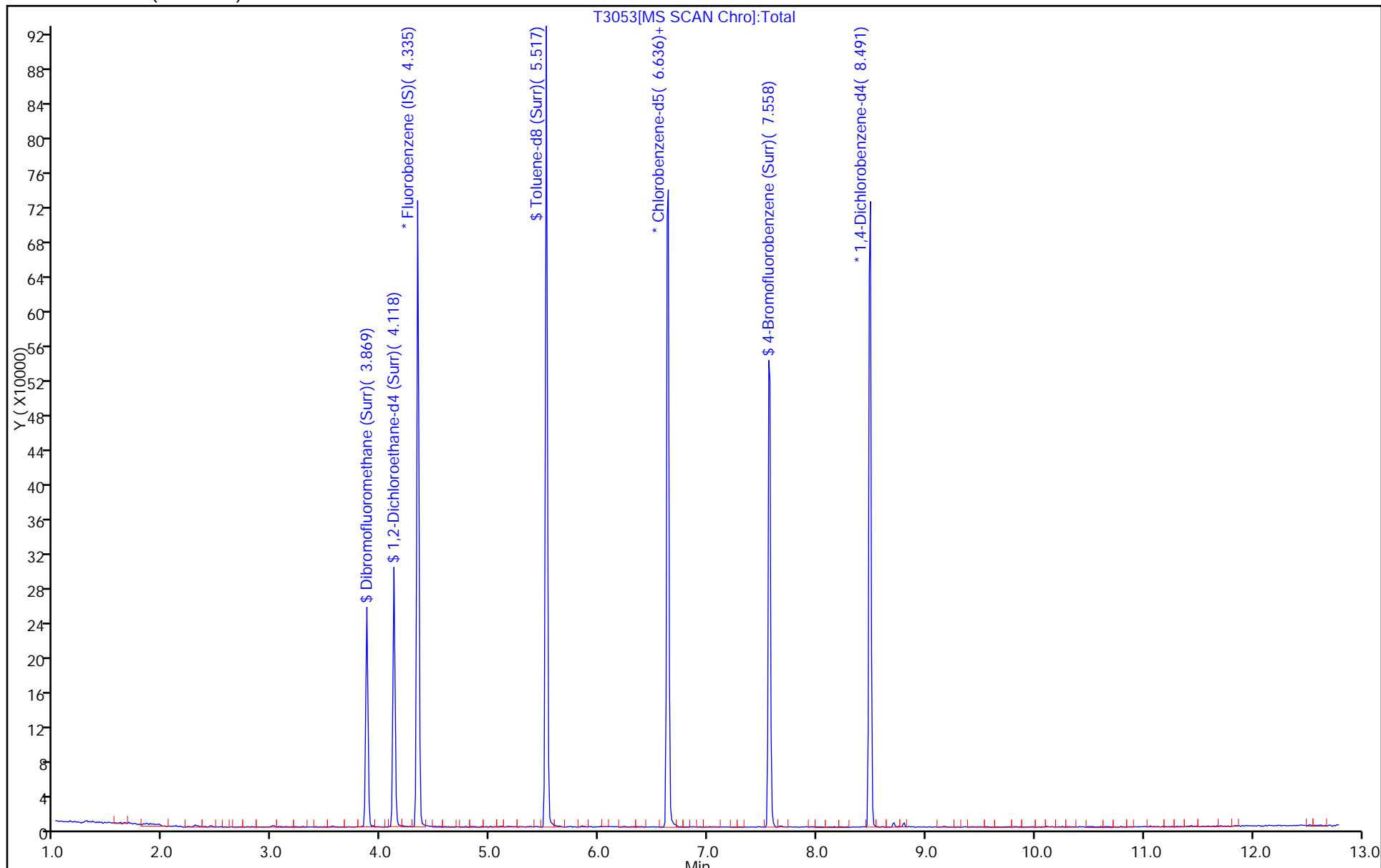
Dil. Factor: 1.0000

ALS Bottle#: 46

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Well 1-3 Lab Sample ID: 480-62726-2
 Matrix: Water Lab File ID: T3054.D
 Analysis Method: 8260C Date Collected: 06/25/2014 13:40
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 16:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Well 1-3 Lab Sample ID: 480-62726-2
 Matrix: Water Lab File ID: T3054.D
 Analysis Method: 8260C Date Collected: 06/25/2014 13:40
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 16:53
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 105 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 93 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 100 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3054.D
 Lims ID: 480-62726-A-2 Lab Sample ID: 480-62726-2
 Client ID: Well 1-3
 Sample Type: Client
 Inject. Date: 08-Jul-2014 16:53:30 ALS Bottle#: 47 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-62726-A-2
 Misc. Info.: 480-0033584-020
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 19:56:03 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goliszekg

Date: 08-Jul-2014 19:57:50

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.336 | 4.335 | 0.001 | 97 | 423642 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 88 | 333609 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 96 | 156329 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 56 | 106920 | 24.9 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 141385 | 26.2 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 95 | 414667 | 24.6 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 88 | 115389 | 23.3 | |
| 11 Dichlorodifluoromethane | 85 | | 0.905 | | | | ND | |
| 13 Chloromethane | 50 | | 1.019 | | | | ND | |
| 14 Vinyl chloride | 62 | | 1.102 | | | | ND | |
| 15 Bromomethane | 94 | | 1.320 | | | | ND | |
| 16 Chloroethane | 64 | | 1.382 | | | | ND | |
| 17 Trichlorofluoromethane | 101 | | 1.537 | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 1.962 | | | | ND | |
| 22 1,1-Dichloroethene | 96 | | 1.962 | | | | ND | |
| 25 Carbon disulfide | 76 | | 2.118 | | | | ND | |
| 23 Acetone | 43 | | 2.118 | | | | ND | |
| 28 Methyl acetate | 43 | | 2.377 | | | | ND | |
| 30 Methylene Chloride | 84 | | 2.429 | | | | ND | |
| 32 trans-1,2-Dichloroethene | 96 | | 2.625 | | | | ND | |
| 33 Methyl tert-butyl ether | 73 | | 2.636 | | | | ND | |
| 36 1,1-Dichloroethane | 63 | | 2.999 | | | | ND | |
| 43 cis-1,2-Dichloroethene | 96 | | 3.475 | | | | ND | |
| 44 2-Butanone (MEK) | 43 | | 3.537 | | | | ND | |
| 50 Chloroform | 83 | | 3.734 | | | | ND | |
| 52 Cyclohexane | 56 | | 3.817 | | | | ND | |
| 51 1,1,1-Trichloroethane | 97 | | 3.817 | | | | ND | |
| 53 Carbon tetrachloride | 117 | | 3.931 | | | | ND | |
| 55 Benzene | 78 | | 4.118 | | | | ND | |
| 57 1,2-Dichloroethane | 62 | | 4.170 | | | | ND | |
| 1 1,4-Difluorobenzene | 114 | | 4.429 | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|--------------|------------------|------------------|---|----------|-------------------|-------|
| 60 Trichloroethene | 95 | | 4.605 | | | | ND | |
| 62 Methylcyclohexane | 83 | | 4.688 | | | | ND | |
| 63 1,2-Dichloropropane | 63 | | 4.802 | | | | ND | |
| 67 Dichlorobromomethane | 83 | | 5.019 | | | | ND | |
| 71 cis-1,3-Dichloropropene | 75 | | 5.351 | | | | ND | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | | 5.475 | | | | ND | |
| 73 Toluene | 92 | | 5.569 | | | | ND | |
| 75 trans-1,3-Dichloropropene | 75 | | 5.786 | | | | ND | |
| 78 1,1,2-Trichloroethane | 83 | | 5.931 | | | | ND | |
| 79 Tetrachloroethene | 166 | | 5.962 | | | | ND | |
| 81 2-Hexanone | 43 | | 6.118 | | | | ND | |
| 82 Chlorodibromomethane | 129 | | 6.221 | | | | ND | |
| 83 Ethylene Dibromide | 107 | | 6.294 | | | | ND | |
| 86 Chlorobenzene | 112 | | 6.657 | | | | ND | |
| 88 Ethylbenzene | 91 | | 6.729 | | | | ND | |
| 90 m-Xylene & p-Xylene | 106 | | 6.822 | | | | ND | |
| 91 o-Xylene | 106 | | 7.133 | | | | ND | |
| 92 Styrene | 104 | | 7.154 | | | | ND | |
| 93 Bromoform | 173 | | 7.330 | | | | ND | |
| 95 Isopropylbenzene | 105 | | 7.413 | | | | ND | |
| 98 1,1,2,2-Tetrachloroethane | 83 | | 7.724 | | | | ND | |
| 104 1,3,5-Trimethylbenzene | 105 | | 7.890 | | | | ND | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.190 | | | | ND | |
| 110 1,3-Dichlorobenzene | 146 | | 8.429 | | | | ND | |
| 113 1,4-Dichlorobenzene | 146 | | 8.501 | | | | ND | |
| 116 1,2-Dichlorobenzene | 146 | | 8.812 | | | | ND | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 9.486 | | | | ND | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.118 | | | | ND | |
| S 126 Xylenes, Total | 1 | | 30.000 | | | | 0 | |

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00077

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3054.D

Injection Date: 08-Jul-2014 16:53:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: 480-62726-A-2

Lab Sample ID: 480-62726-2

Worklist Smp#: 20

Client ID: Well 1-3

Purge Vol: 5.000 mL

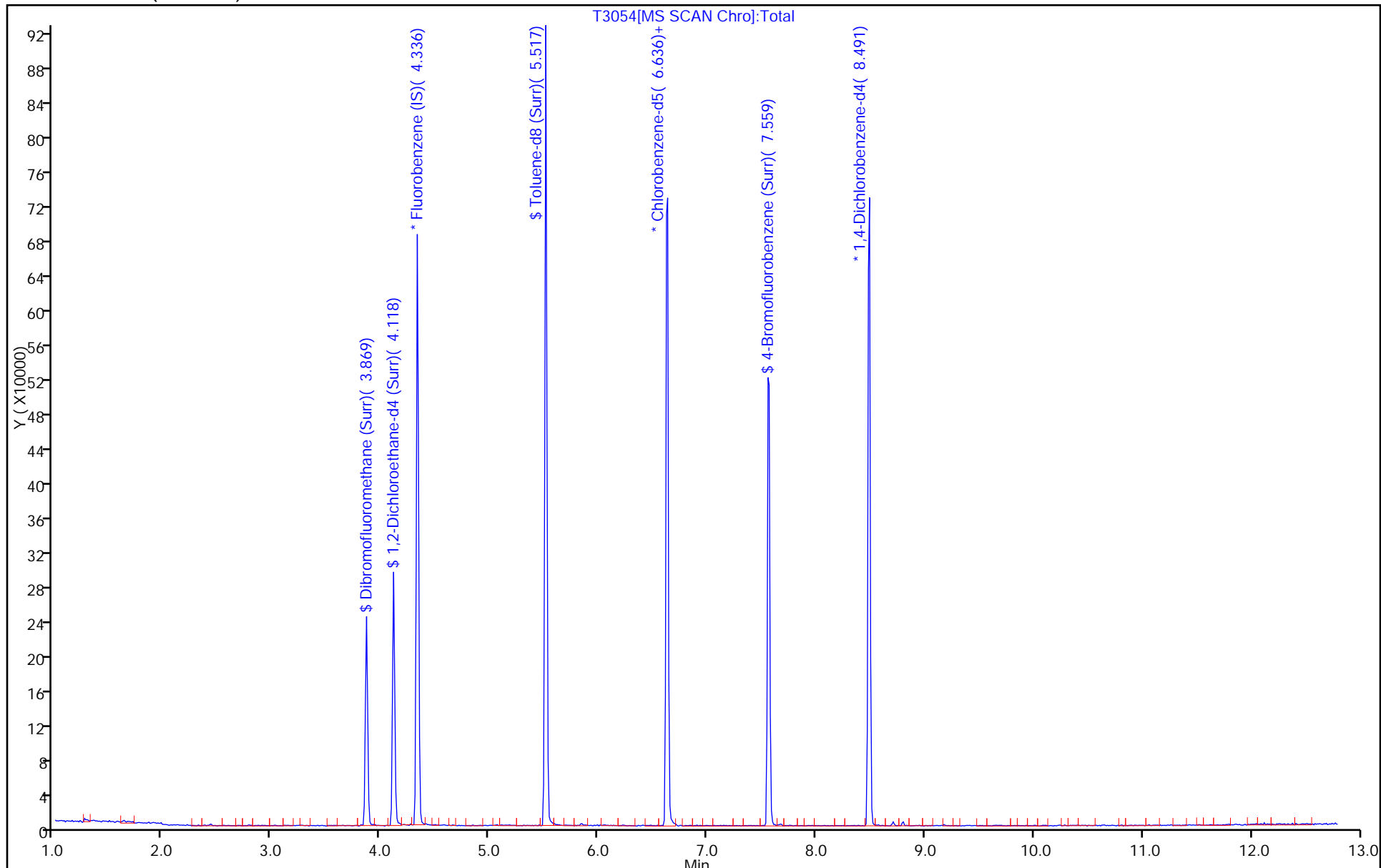
Dil. Factor: 1.0000

ALS Bottle#: 47

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 480-62726-3
 Matrix: Water Lab File ID: T3055.D
 Analysis Method: 8260C Date Collected: 06/25/2014 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 17:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: Trip Blank Lab Sample ID: 480-62726-3
 Matrix: Water Lab File ID: T3055.D
 Analysis Method: 8260C Date Collected: 06/25/2014 00:00
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 17:16
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 94 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 99 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 99 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3055.D
 Lims ID: 480-62726-A-3 Lab Sample ID: 480-62726-3
 Client ID: Trip Blank
 Sample Type: Client
 Inject. Date: 08-Jul-2014 17:16:30 ALS Bottle#: 48 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-62726-A-3
 Misc. Info.: 480-0033584-021
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 19:57:58 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: goliszekg

Date: 08-Jul-2014 19:57:58

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 97 | 430673 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 88 | 326480 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 95 | 160210 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 56 | 107363 | 24.6 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 142835 | 26.0 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 96 | 406894 | 24.7 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 92 | 114312 | 23.5 | |
| 11 Dichlorodifluoromethane | 85 | | 0.905 | | | | ND | |
| 13 Chloromethane | 50 | | 1.019 | | | | ND | |
| 14 Vinyl chloride | 62 | | 1.102 | | | | ND | |
| 15 Bromomethane | 94 | | 1.320 | | | | ND | |
| 16 Chloroethane | 64 | | 1.382 | | | | ND | |
| 17 Trichlorofluoromethane | 101 | | 1.537 | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 1.962 | | | | ND | |
| 22 1,1-Dichloroethene | 96 | | 1.962 | | | | ND | |
| 25 Carbon disulfide | 76 | | 2.118 | | | | ND | |
| 23 Acetone | 43 | | 2.118 | | | | ND | |
| 28 Methyl acetate | 43 | | 2.377 | | | | ND | |
| 30 Methylene Chloride | 84 | | 2.429 | | | | ND | |
| 32 trans-1,2-Dichloroethene | 96 | | 2.625 | | | | ND | |
| 33 Methyl tert-butyl ether | 73 | | 2.636 | | | | ND | |
| 36 1,1-Dichloroethane | 63 | | 2.999 | | | | ND | |
| 43 cis-1,2-Dichloroethene | 96 | | 3.475 | | | | ND | |
| 44 2-Butanone (MEK) | 43 | | 3.537 | | | | ND | |
| 50 Chloroform | 83 | | 3.734 | | | | ND | |
| 52 Cyclohexane | 56 | | 3.817 | | | | ND | |
| 51 1,1,1-Trichloroethane | 97 | | 3.817 | | | | ND | |
| 53 Carbon tetrachloride | 117 | | 3.931 | | | | ND | |
| 55 Benzene | 78 | | 4.118 | | | | ND | |
| 57 1,2-Dichloroethane | 62 | | 4.170 | | | | ND | |
| 1 1,4-Difluorobenzene | 114 | | 4.429 | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|----------------|-------|
| 60 Trichloroethene | 95 | | 4.605 | | | | ND | |
| 62 Methylcyclohexane | 83 | | 4.688 | | | | ND | |
| 63 1,2-Dichloropropane | 63 | | 4.802 | | | | ND | |
| 67 Dichlorobromomethane | 83 | | 5.019 | | | | ND | |
| 71 cis-1,3-Dichloropropene | 75 | | 5.351 | | | | ND | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | | 5.475 | | | | ND | |
| 73 Toluene | 92 | | 5.569 | | | | ND | |
| 75 trans-1,3-Dichloropropene | 75 | | 5.786 | | | | ND | |
| 78 1,1,2-Trichloroethane | 83 | | 5.931 | | | | ND | |
| 79 Tetrachloroethene | 166 | | 5.962 | | | | ND | |
| 81 2-Hexanone | 43 | | 6.118 | | | | ND | |
| 82 Chlorodibromomethane | 129 | | 6.221 | | | | ND | |
| 83 Ethylene Dibromide | 107 | | 6.294 | | | | ND | |
| 86 Chlorobenzene | 112 | | 6.657 | | | | ND | |
| 88 Ethylbenzene | 91 | | 6.729 | | | | ND | |
| 90 m-Xylene & p-Xylene | 106 | | 6.822 | | | | ND | |
| 91 o-Xylene | 106 | | 7.133 | | | | ND | |
| 92 Styrene | 104 | | 7.154 | | | | ND | |
| 93 Bromoform | 173 | | 7.330 | | | | ND | |
| 95 Isopropylbenzene | 105 | | 7.413 | | | | ND | |
| 98 1,1,2,2-Tetrachloroethane | 83 | | 7.724 | | | | ND | |
| 104 1,3,5-Trimethylbenzene | 105 | | 7.890 | | | | ND | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.190 | | | | ND | |
| 110 1,3-Dichlorobenzene | 146 | | 8.429 | | | | ND | |
| 113 1,4-Dichlorobenzene | 146 | | 8.501 | | | | ND | |
| 116 1,2-Dichlorobenzene | 146 | | 8.812 | | | | ND | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 9.486 | | | | ND | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.118 | | | | ND | |
| S 126 Xylenes, Total | 1 | | 30.000 | | | | 0 | |

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

T_8260_IS_00077

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3055.D

Injection Date: 08-Jul-2014 17:16:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: 480-62726-A-3

Lab Sample ID: 480-62726-3

Worklist Smp#: 21

Client ID: Trip Blank

Purge Vol: 5.000 mL

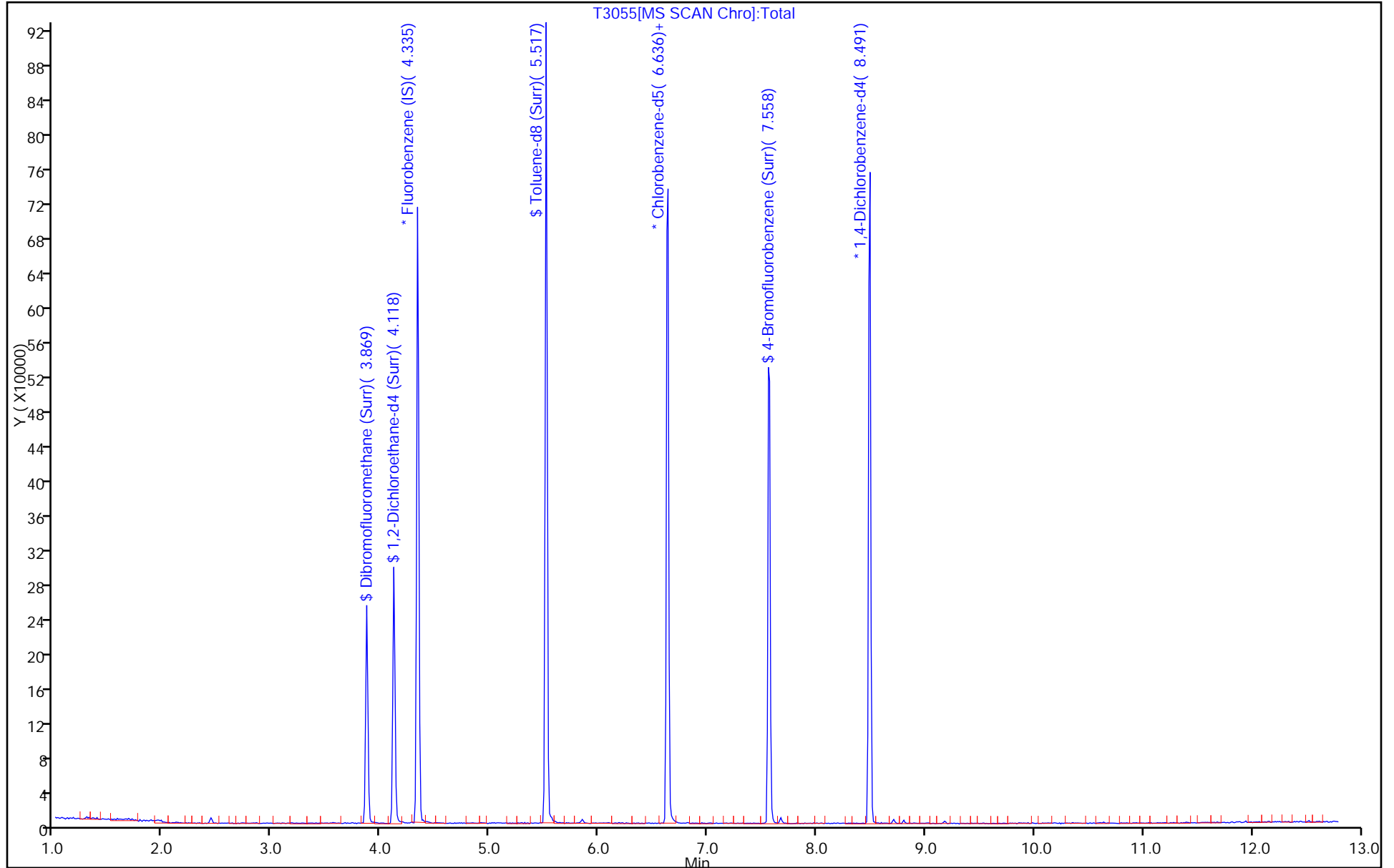
Dil. Factor: 1.0000

ALS Bottle#: 48

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1 Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16 Calibration End Date: 06/27/2014 16:39 Calibration ID: 19161

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|--------------------|--------------|
| Level 1 | IC 480-190242/9 | T2722.D |
| Level 2 | IC 480-190242/10 | T2723.D |
| Level 3 | IC 480-190242/11 | T2724.D |
| Level 4 | IC 480-190242/8 | T2721.D |
| Level 5 | ICIS 480-190242/12 | T2725.D |
| Level 6 | IC 480-190242/13 | T2726.D |
| Level 7 | IC 480-190242/14 | T2727.D |

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|---------------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|----|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Dichlorodifluoromethane | 0.3042 0.2834 | 0.2910 0.2642 | 0.2803 | | 0.2781 | Ave | 0.2835 | | | 0.1000 | 4.7 | | 20.0 | | | | |
| Chloromethane | 0.4425 0.3905 | 0.3833 0.3799 | 0.3700 | | 0.3688 | Ave | 0.3892 | | | 0.1000 | 7.0 | | 20.0 | | | | |
| Vinyl chloride | 0.3565 0.3152 | 0.2982 0.2948 | 0.3072 | 0.4568 | 0.3112 | Ave | 0.3343 | | | 0.1000 | 17.0 | | 20.0 | | | | |
| Butadiene | 0.3601 0.3395 | 0.3422 0.3142 | 0.3361 | | 0.3335 | Ave | 0.3376 | | | | 4.4 | | 20.0 | | | | |
| Bromomethane | 0.1684 0.1202 | 0.1343 0.1122 | 0.1266 | | 0.1203 | Ave | 0.1303 | | | 0.1000 | 15.0 | | 20.0 | | | | |
| Chloroethane | 0.2313 0.1597 | 0.1617 0.1578 | 0.1590 | | 0.1582 | Ave | 0.1713 | | | 0.1000 | 17.0 | | 20.0 | | | | |
| Trichlorofluoromethane | 0.3776 0.3721 | 0.3615 0.3532 | 0.3529 | | 0.3616 | Ave | 0.3632 | | | 0.1000 | 2.7 | | 20.0 | | | | |
| Dichlorofluoromethane | 0.4604 0.3298 | 0.3568 0.3138 | 0.3320 | | 0.3258 | Ave | 0.3531 | | | | 15.0 | | 20.0 | | | | |
| Ethyl ether | 0.3495 0.2678 | 0.2818 0.2533 | 0.2836 | | 0.2678 | Ave | 0.2840 | | | | 12.0 | | 20.0 | | | | |
| Acrolein | 0.0683 0.0443 | 0.0462 0.0427 | 0.0449 | | 0.0452 | Ave | 0.0486 | | | | 20.0 | | 20.0 | | | | |
| 1,1-Dichloroethene | 0.2936 0.2156 | 0.2352 0.2020 | 0.2160 | | 0.2163 | Ave | 0.2298 | | | 0.1000 | 14.0 | | 20.0 | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | 0.3050 0.2437 | 0.2477 0.2291 | 0.2468 | | 0.2465 | Ave | 0.2531 | | | 0.1000 | 10.0 | | 20.0 | | | | |
| Iodomethane | 0.5112 0.4171 | 0.4316 0.3897 | 0.4285 | | 0.4228 | Ave | 0.4335 | | | | 9.4 | | 20.0 | | | | |
| Acetone | 0.1776 0.1233 | 0.1253 0.1197 | 0.1271 | | 0.1242 | Ave | 0.1329 | | | 0.1000 | 17.0 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-62726-1

Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16

Calibration End Date: 06/27/2014 16:39

Calibration ID: 19161

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|--------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|--------|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| Carbon disulfide | 1.1112 0.8597 | 0.8612 0.8077 | 0.8543 | | 0.8474 | Ave | | 0.8903 | | | 0.1000 | 12.0 | 20.0 | | | | |
| Allyl chloride | 0.6840 0.5410 | 0.5426 0.5213 | 0.5195 | | 0.5299 | Ave | | 0.5564 | | | | 11.0 | 20.0 | | | | |
| Methyl acetate | 0.3785 0.3018 | 0.2847 0.3001 | 0.2908 | | 0.2936 | Ave | | 0.3082 | | | 0.1000 | 11.0 | 20.0 | | | | |
| Methylene Chloride | 0.5944 0.2777 | 0.3296 0.2699 | 0.2987 | | 0.2875 | Lin1 | 0.3247 | 0.2688 | | | 0.1000 | | | 1.0000 | | 0.9900 | |
| trans-1,2-Dichloroethene | 0.3708 0.2738 | 0.2792 0.2609 | 0.2783 | | 0.2741 | Ave | | 0.2895 | | | 0.1000 | 14.0 | 20.0 | | | | |
| 2-Methyl-2-propanol | 0.0436 0.0446 | 0.0405 0.0462 | 0.0390 | | 0.0438 | Ave | | 0.0429 | | | | 6.2 | 20.0 | | | | |
| Methyl tert-butyl ether | 0.9704 0.8494 | 0.8129 0.8369 | 0.8625 | | 0.8348 | Ave | | 0.8612 | | | 0.1000 | 6.5 | 20.0 | | | | |
| Acrylonitrile | 0.1588 0.1362 | 0.1284 0.1386 | 0.1317 | 0.1593 | 0.1339 | Ave | | 0.1410 | | | | 9.1 | 20.0 | | | | |
| Hexane | 0.7372 0.4974 | 0.4814 0.4880 | 0.4951 | | 0.4859 | Ave | | 0.5308 | | | | 19.0 | 20.0 | | | | |
| 1,1-Dichloroethane | 0.6865 0.5532 | 0.5443 0.5286 | 0.5311 | | 0.5452 | Ave | | 0.5648 | | | 0.2000 | 11.0 | 20.0 | | | | |
| Vinyl acetate | 0.5902 0.6475 | 0.5356 0.6906 | 0.5791 | | 0.5947 | Ave | | 0.6063 | | | | 9.0 | 20.0 | | | | |
| 2,2-Dichloropropane | 0.3957 0.3014 | 0.3177 0.2922 | 0.3043 | | 0.3028 | Ave | | 0.3190 | | | | 12.0 | 20.0 | | | | |
| cis-1,2-Dichloroethene | 0.3805 0.2936 | 0.2808 0.2857 | 0.2956 | | 0.2931 | Ave | | 0.3049 | | | 0.1000 | 12.0 | 20.0 | | | | |
| 2-Butanone (MEK) | 0.2198 0.1957 | 0.1878 0.1970 | 0.1869 | | 0.1854 | Ave | | 0.1954 | | | 0.1000 | 6.6 | 20.0 | | | | |
| Chlorobromomethane | 0.1938 0.1501 | 0.1427 0.1489 | 0.1436 | | 0.1452 | Ave | | 0.1541 | | | | 13.0 | 20.0 | | | | |
| Tetrahydrofuran | 0.1738 0.1278 | 0.1221 0.1301 | 0.1255 | | 0.1236 | Ave | | 0.1338 | | | | 15.0 | 20.0 | | | | |
| Chloroform | 0.6420 0.4689 | 0.4757 0.4606 | 0.4680 | | 0.4675 | Ave | | 0.4971 | | | 0.2000 | 14.0 | 20.0 | | | | |
| Cyclohexane | 0.6918 0.6037 | 0.5662 0.5905 | 0.5777 | | 0.5740 | Ave | | 0.6006 | | | 0.1000 | 7.8 | 20.0 | | | | |
| 1,1,1-Trichloroethane | 0.4537 0.3985 | 0.3724 0.3818 | 0.3620 | | 0.3775 | Ave | | 0.3910 | | | 0.1000 | 8.4 | 20.0 | | | | |
| Carbon tetrachloride | 0.3837 0.3214 | 0.2889 0.3298 | 0.2870 | | 0.2977 | Ave | | 0.3181 | | | 0.1000 | 11.0 | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-62726-1

Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16

Calibration End Date: 06/27/2014 16:39

Calibration ID: 19161

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|-----------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 1,1-Dichloropropene | 0.4160 0.3704 | 0.3541 0.3552 | 0.3455 | | 0.3562 | Ave | | 0.3662 | | | 7.0 | | 20.0 | | | | |
| Benzene | 1.3644 1.0778 | 1.0818 1.0407 | 1.0591 | | 1.0398 | Ave | | 1.1106 | | 0.5000 | 11.0 | | 20.0 | | | | |
| Isobutyl alcohol | 0.0164 0.0208 | 0.0144 0.0218 | 0.0164 | | 0.0183 | Ave | | 0.0180 | | | 16.0 | | 20.0 | | | | |
| 1,2-Dichloroethane | 0.5272 0.4360 | 0.4107 0.4308 | 0.4291 | | 0.4219 | Ave | | 0.4427 | | 0.1000 | 9.6 | | 20.0 | | | | |
| n-Heptane | 0.8627 0.5667 | 0.5821 0.5433 | 0.5454 | | 0.5629 | Ave | | 0.6105 | | | 20.0 | | 20.0 | | | | |
| Trichloroethene | 0.3157 0.2751 | 0.2804 0.2720 | 0.2777 | | 0.2711 | Ave | | 0.2820 | | 0.2000 | 6.0 | | 20.0 | | | | |
| Methylcyclohexane | 0.5683 0.4814 | 0.4899 0.4628 | 0.4623 | | 0.4706 | Ave | | 0.4892 | | 0.1000 | 8.2 | | 20.0 | | | | |
| 1,2-Dichloropropane | 0.3652 0.3090 | 0.2980 0.2958 | 0.3045 | | 0.2983 | Ave | | 0.3118 | | 0.1000 | 8.5 | | 20.0 | | | | |
| Dibromomethane | 0.2209 0.1824 | 0.1728 0.1773 | 0.1795 | | 0.1809 | Ave | | 0.1857 | | 0.1000 | 9.5 | | 20.0 | | | | |
| 1,4-Dioxane | 0.0046 0.0047 | 0.0043 0.0051 | 0.0048 | | 0.0049 | Ave | | 0.0047 | | | 5.7 | | 20.0 | | | | |
| Bromodichloromethane | 0.3403 0.3319 | 0.2752 0.3470 | 0.3011 | | 0.3099 | Ave | | 0.3176 | | 0.2000 | 8.6 | | 20.0 | | | | |
| 2-Chloroethyl vinyl ether | 0.2089 0.2023 | 0.1776 0.2006 | 0.1947 | | 0.1968 | Ave | | 0.1968 | | | 5.4 | | 20.0 | | | | |
| cis-1,3-Dichloropropene | 0.4522 0.4179 | 0.3660 0.4293 | 0.4018 | 0.5332 | 0.4068 | Ave | | 0.4296 | | 0.2000 | 12.0 | | 20.0 | | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.6558 0.5819 | 0.5343 0.6059 | 0.5522 | | 0.5662 | Ave | | 0.5827 | | 0.1000 | 7.5 | | 20.0 | | | | |
| Toluene | 1.1047 0.8872 | 0.8837 0.9009 | 0.8930 | | 0.8794 | Ave | | 0.9248 | | 0.4000 | 9.6 | | 20.0 | | | | |
| trans-1,3-Dichloropropene | 0.5034 0.4868 | 0.4061 0.5334 | 0.4394 | 0.4153 | 0.4723 | Ave | | 0.4652 | | 0.1000 | 10.0 | | 20.0 | | | | |
| Ethyl methacrylate | 0.5167 0.5179 | 0.4311 0.5341 | 0.4633 | | 0.4888 | Ave | | 0.4920 | | | 7.9 | | 20.0 | | | | |
| 1,1,2-Trichloroethane | 0.3235 0.2811 | 0.2524 0.2826 | 0.2738 | | 0.2812 | Ave | | 0.2824 | | 0.1000 | 8.2 | | 20.0 | | | | |
| Tetrachloroethene | 0.4792 0.3668 | 0.3534 0.3671 | 0.3653 | | 0.3583 | Ave | | 0.3817 | | 0.2000 | 13.0 | | 20.0 | | | | |
| 1,3-Dichloropropane | 0.7169 0.5845 | 0.5741 0.5917 | 0.5849 | | 0.5677 | Ave | | 0.6033 | | | 9.3 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo

Job No.: 480-62726-1

Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16

Calibration End Date: 06/27/2014 16:39

Calibration ID: 19161

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R^2 OR COD | # | MIN R^2 OR COD |
|-----------------------------|------------------|------------------|--------|-------|--------|------------|-------------|--------|----|---|---------|------|------|----------|------------|---|----------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 2-Hexanone | 0.4314 0.4234 | 0.3651 0.4444 | 0.3964 | | 0.4101 | Ave | | 0.4118 | | | 0.1000 | 6.9 | 20.0 | | | | |
| Dibromochloromethane | 0.3103 0.3118 | 0.2330 0.3421 | 0.2503 | | 0.2789 | Ave | | 0.2877 | | | 0.1000 | 14.0 | 20.0 | | | | |
| 1,2-Dibromoethane | 0.3943 0.3446 | 0.3098 0.3603 | 0.3238 | | 0.3400 | Ave | | 0.3455 | | | | 8.6 | 20.0 | | | | |
| Chlorobenzene | 1.1765 0.9906 | 0.9790 1.0069 | 0.9970 | | 0.9810 | Ave | | 1.0218 | | | 0.5000 | 7.5 | 20.0 | | | | |
| 1,1,1,2-Tetrachloroethane | 0.3135 0.3134 | 0.2604 0.3434 | 0.2709 | | 0.2991 | Ave | | 0.3001 | | | | 10.0 | 20.0 | | | | |
| Ethylbenzene | 2.1089 1.7266 | 1.6762 1.7529 | 1.6946 | | 1.6924 | Ave | | 1.7753 | | | 0.1000 | 9.3 | 20.0 | | | | |
| m,p-Xylene | 0.8069 0.6818 | 0.6623 0.6818 | 0.6768 | | 0.6648 | Ave | | 0.6957 | | | 0.1000 | 7.9 | 20.0 | | | | |
| o-Xylene | 0.7784 0.6560 | 0.6392 0.6624 | 0.6469 | | 0.6599 | Ave | | 0.6738 | | | 0.3000 | 7.7 | 20.0 | | | | |
| Styrene | 1.3297 1.1786 | 1.0924 1.1735 | 1.1293 | | 1.1364 | Ave | | 1.1733 | | | 0.3000 | 7.1 | 20.0 | | | | |
| Bromoform | 0.1700 0.1705 | 0.1232 0.1975 | 0.1321 | | 0.1492 | Ave | | 0.1571 | | | 0.1000 | 18.0 | 20.0 | | | | |
| Isopropylbenzene | 4.1612 3.2971 | 3.3750 3.2139 | 3.3688 | | 3.2459 | Ave | | 3.4436 | | | 0.1000 | 10.0 | 20.0 | | | | |
| Bromobenzene | 1.0260 0.7863 | 0.7882 0.7677 | 0.7889 | | 0.7825 | Ave | | 0.8233 | | | | 12.0 | 20.0 | | | | |
| 1,1,2,2-Tetrachloroethane | 1.0374 0.8752 | 0.8262 0.8671 | 0.8769 | | 0.8520 | Ave | | 0.8891 | | | 0.3000 | 8.4 | 20.0 | | | | |
| N-Propylbenzene | 5.1662 3.9705 | 3.9761 3.8141 | 4.0744 | | 3.9607 | Ave | | 4.1603 | | | | 12.0 | 20.0 | | | | |
| 1,2,3-Trichloropropane | 0.3507 0.2761 | 0.2602 0.2695 | 0.2810 | | 0.2652 | Ave | | 0.2838 | | | | 12.0 | 20.0 | | | | |
| trans-1,4-Dichloro-2-butene | 0.2329 0.3250 | 0.2457 0.3456 | 0.2705 | | 0.2910 | Ave | | 0.2851 | | | | 16.0 | 20.0 | | | | |
| 2-Chlorotoluene | 1.0145 0.7678 | 0.7616 0.7409 | 0.7939 | | 0.7704 | Ave | | 0.8082 | | | | 13.0 | 20.0 | | | | |
| 1,3,5-Trimethylbenzene | 3.5260 2.7744 | 2.8289 2.6895 | 2.8311 | | 2.7072 | Ave | | 2.8928 | | | | 11.0 | 20.0 | | | | |
| 4-Chlorotoluene | 3.2753 2.7169 | 2.6098 2.6400 | 2.7752 | | 2.6267 | Ave | | 2.7740 | | | | 9.1 | 20.0 | | | | |
| tert-Butylbenzene | 0.7916 0.6172 | 0.5853 0.5909 | 0.6326 | | 0.6105 | Ave | | 0.6380 | | | | 12.0 | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1 Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16 Calibration End Date: 06/27/2014 16:39 Calibration ID: 19161

| ANALYTE | RRF | | | | | CURVE TYPE | COEFFICIENT | | | # | MIN RRF | %RSD | # | MAX %RSD | R ² OR COD | # | MIN R ² OR COD |
|------------------------------|------------------|------------------|--------|--------|--------|------------|-------------|--------|----|--------|---------|------|------|----------|-----------------------|---|---------------------------|
| | LVL 1 | LVL 2 | LVL 3 | LVL 4 | LVL 5 | | B | M1 | M2 | | | | | | | | |
| | LVL 6 | LVL 7 | | | | | | | | | | | | | | | |
| 1,2,4-Trimethylbenzene | 3.5033 2.9061 | 2.8998 2.8269 | 2.8776 | | 2.8586 | Ave | | 2.9787 | | | 8.7 | | 20.0 | | | | |
| sec-Butylbenzene | 4.5553 3.6379 | 3.6003 3.5329 | 3.6446 | | 3.5698 | Ave | | 3.7568 | | | 10.0 | | 20.0 | | | | |
| 1,3-Dichlorobenzene | 2.0976 1.5857 | 1.5628 1.5218 | 1.5844 | | 1.5654 | Ave | | 1.6530 | | 0.6000 | 13.0 | | 20.0 | | | | |
| 4-Isopropyltoluene | 3.5917 3.1638 | 3.0764 3.0479 | 3.1583 | | 3.0610 | Ave | | 3.1832 | | | 6.5 | | 20.0 | | | | |
| 1,4-Dichlorobenzene | 1.9990 1.6170 | 1.6296 1.5844 | 1.6260 | | 1.6041 | Ave | | 1.6767 | | 0.5000 | 9.5 | | 20.0 | | | | |
| n-Butylbenzene | 3.4952 2.9499 | 2.7861 2.8037 | 2.8366 | | 2.8624 | Ave | | 2.9557 | | | 9.2 | | 20.0 | | | | |
| 1,2-Dichlorobenzene | 1.8202 1.5574 | 1.5249 1.4901 | 1.5211 | | 1.5229 | Ave | | 1.5728 | | 0.4000 | 7.8 | | 20.0 | | | | |
| 1,2-Dibromo-3-Chloropropane | 0.1065 0.1395 | 0.1184 0.1482 | 0.1130 | | 0.1273 | Ave | | 0.1255 | | 0.0500 | 13.0 | | 20.0 | | | | |
| 1,2,4-Trichlorobenzene | 1.1103 0.9875 | 0.9660 0.9462 | 0.9659 | | 0.9804 | Ave | | 0.9927 | | 0.2000 | 6.0 | | 20.0 | | | | |
| Hexachlorobutadiene | 0.5547 0.4413 | 0.4361 0.4232 | 0.4481 | 0.5033 | 0.4374 | Ave | | 0.4634 | | | 10.0 | | 20.0 | | | | |
| Naphthalene | 2.7171 2.8151 | 2.5128 2.6755 | 2.6587 | | 2.6924 | Ave | | 2.6786 | | | 3.7 | | 20.0 | | | | |
| 1,2,3-Trichlorobenzene | 1.0345 0.9449 | 0.8271 0.8677 | 0.9144 | | 0.9142 | Ave | | 0.9171 | | | 7.7 | | 20.0 | | | | |
| Dibromofluoromethane (Surr) | 0.2501 0.2635 | 0.2463 0.2550 | 0.2523 | 0.2488 | 0.2548 | Ave | | 0.2530 | | | 2.2 | | 20.0 | | | | |
| 1,2-Dichloroethane-d4 (Surr) | 0.3153 0.3238 | 0.3195 0.3198 | 0.3217 | 0.3152 | 0.3131 | Ave | | 0.3184 | | | 1.2 | | 20.0 | | | | |
| Toluene-d8 (Surr) | 1.2637 1.2315 | 1.2376 1.2780 | 1.2702 | 1.2805 | 1.2698 | Ave | | 1.2616 | | | 1.5 | | 20.0 | | | | |
| 4-Bromofluorobenzene (Surr) | 0.3634 0.3707 | 0.3735 0.3806 | 0.3615 | 0.3696 | 0.3838 | Ave | | 0.3719 | | | 2.2 | | 20.0 | | | | |

Note: The m1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1 Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16 Calibration End Date: 06/27/2014 16:39 Calibration ID: 19161

Calibration Files:

| LEVEL: | LAB SAMPLE ID: | LAB FILE ID: |
|---------|--------------------|--------------|
| Level 1 | IC 480-190242/9 | T2722.D |
| Level 2 | IC 480-190242/10 | T2723.D |
| Level 3 | IC 480-190242/11 | T2724.D |
| Level 4 | IC 480-190242/8 | T2721.D |
| Level 5 | ICIS 480-190242/12 | T2725.D |
| Level 6 | IC 480-190242/13 | T2726.D |
| Level 7 | IC 480-190242/14 | T2727.D |

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|---------------------------------------|--------|------------|------------------|------------------|--------|-------|--------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Dichlorodifluoromethane | FB | Ave | 7085 343673 | 33784 686600 | 65446 | | 167289 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Chloromethane | FB | Ave | 10306 473645 | 44496 987399 | 86388 | | 221835 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Vinyl chloride | FB | Ave | 8302 382247 | 34621 766153 | 71731 | 4116 | 187189 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Butadiene | FB | Ave | 8386 411705 | 39727 816504 | 78480 | | 200619 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromomethane | FB | Ave | 3923 145741 | 15587 291558 | 29565 | | 72340 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Chloroethane | FB | Ave | 5386 193675 | 18773 410115 | 37128 | | 95150 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Trichlorofluoromethane | FB | Ave | 8795 451290 | 41970 918026 | 82395 | | 217492 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dichlorofluoromethane | FB | Ave | 10723 400042 | 41426 815429 | 77522 | | 195935 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Ethyl ether | FB | Ave | 8141 324818 | 32714 658271 | 66230 | | 161048 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acrolein | FB | Ave | 7957 268571 | 26840 554303 | 52446 | | 135942 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| 1,1-Dichloroethene | FB | Ave | 6839 261537 | 27304 525025 | 50425 | | 130082 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | FB | Ave | 7104 295525 | 28758 595364 | 57628 | | 148236 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Iodomethane | FB | Ave | 11907 505840 | 50109 1012785 | 100058 | | 254326 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acetone | FB | Ave | 20679 747946 | 72742 1555444 | 148444 | | 373562 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Carbon disulfide | FB | Ave | 25881 1042747 | 99984 2099152 | 199488 | | 509688 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1 Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16 Calibration End Date: 06/27/2014 16:39 Calibration ID: 19161

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|--------------------------|--------|------------|------------------|-------------------|--------|-------|--------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Allyl chloride | FB | Ave | 15930 656143 | 62997 1354704 | 121308 | | 318708 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Methyl acetate | FB | Ave | 44074 1829984 | 165255 3900168 | 339490 | | 882854 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Methylene Chloride | FB | Lin1 | 13843 336823 | 38270 701572 | 69756 | | 172907 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,2-Dichloroethene | FB | Ave | 8636 332051 | 32415 677986 | 64993 | | 164891 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Methyl-2-propanol | FB | Ave | 10151 540420 | 46975 1199480 | 91141 | | 263587 | 10.0 500 | 50.0 1000 | 100 | | 250 |
| Methyl tert-butyl ether | FB | Ave | 22602 1030157 | 94377 2174946 | 201402 | | 502117 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Acrylonitrile | FB | Ave | 36997 1651727 | 149032 3601116 | 307465 | 14357 | 805294 | 10.0 500 | 50.0 1000 | 100 | 4.00 | 250 |
| Hexane | FB | Ave | 17171 603265 | 55890 1268338 | 115597 | | 292229 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1-Dichloroethane | FB | Ave | 15989 670990 | 63189 1373750 | 124023 | | 327940 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Vinyl acetate | FB | Ave | 27492 1570753 | 124359 3589485 | 270443 | | 715402 | 2.00 100 | 10.0 200 | 20.0 | | 50.0 |
| 2,2-Dichloropropane | FB | Ave | 9217 365588 | 36884 759402 | 71047 | | 182125 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| cis-1,2-Dichloroethene | FB | Ave | 8861 356081 | 32594 742416 | 69022 | | 176271 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Butanone (MEK) | FB | Ave | 25598 1186639 | 108994 2559733 | 218224 | | 557503 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Chlorobromomethane | FB | Ave | 4513 182042 | 16567 387034 | 33538 | | 87343 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Tetrahydrofuran | FB | Ave | 8094 310092 | 28347 676325 | 58603 | | 148679 | 2.00 100 | 10.0 200 | 20.0 | | 50.0 |
| Chloroform | FB | Ave | 14953 568749 | 55227 1197076 | 109284 | | 281193 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Cyclohexane | FB | Ave | 16112 732221 | 65728 1534726 | 134886 | | 345235 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,1-Trichloroethane | FB | Ave | 10568 483354 | 43232 992165 | 84533 | | 227055 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Carbon tetrachloride | FB | Ave | 8936 389768 | 33540 857016 | 67005 | | 179080 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1-Dichloropropene | FB | Ave | 9688 449203 | 41108 923067 | 80685 | | 214242 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Benzene | FB | Ave | 31779 1307209 | 125588 2704665 | 247304 | | 625384 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-62726-1

Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16

Calibration End Date: 06/27/2014 16:39

Calibration ID: 19161

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|-----------------------------|--------|------------|------------------|-------------------|--------|-------|---------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Isobutyl alcohol | FB | Ave | 9571 631821 | 41750 1419192 | 95744 | | 275118 | 25.0 1250 | 125 2500 | 250 | | 625 |
| 1,2-Dichloroethane | FB | Ave | 12279 528844 | 47686 1119699 | 100207 | | 253786 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| n-Heptane | FB | Ave | 20093 687337 | 67579 1412052 | 127361 | | 338572 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Trichloroethene | FB | Ave | 7352 333663 | 32551 706880 | 64843 | | 163066 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Methylcyclohexane | FB | Ave | 13236 583845 | 56876 1202690 | 107953 | | 283025 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dichloropropane | FB | Ave | 8506 374728 | 34597 768745 | 71098 | | 179446 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dibromomethane | FB | Ave | 5146 221276 | 20065 460837 | 41913 | | 108811 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,4-Dioxane | CBZ | Ave | 1600 86522 | 7524 192124 | 16722 | | 43594 | 20.0 1000 | 100 2000 | 200 | | 500 |
| Bromodichloromethane | FB | Ave | 7926 402569 | 31947 901899 | 70297 | | 186378 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Chloroethyl vinyl ether | FB | Ave | 4866 245345 | 20615 521249 | 45462 | | 118361 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| cis-1,3-Dichloropropene | FB | Ave | 10533 506889 | 42494 1115743 | 93820 | 4805 | 244649 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| 4-Methyl-2-pentanone (MIBK) | CBZ | Ave | 57146 2686660 | 233058 5692852 | 484617 | | 1267351 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Toluene | CBZ | Ave | 19251 819322 | 77087 1692944 | 156735 | | 393664 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,3-Dichloropropene | CBZ | Ave | 8772 449492 | 35424 1002321 | 77120 | 2813 | 211441 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Ethyl methacrylate | CBZ | Ave | 9005 478229 | 37607 1003725 | 81306 | | 218819 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2-Trichloroethane | CBZ | Ave | 5638 259596 | 22017 530997 | 48049 | | 125899 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Tetrachloroethene | CBZ | Ave | 8351 338683 | 30827 689840 | 64111 | | 160403 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3-Dichloropropane | CBZ | Ave | 12494 539761 | 50085 1112006 | 102654 | | 254119 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Hexanone | CBZ | Ave | 37593 1954794 | 159235 4175243 | 347855 | | 917847 | 5.00 250 | 25.0 500 | 50.0 | | 125 |
| Dibromochloromethane | CBZ | Ave | 5408 287926 | 20322 642871 | 43929 | | 124868 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dibromoethane | CBZ | Ave | 6872 318234 | 27023 677052 | 56832 | | 152192 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1 Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (60) ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16 Calibration End Date: 06/27/2014 16:39 Calibration ID: 19161

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|-----------------------------|--------|------------|------------------|-------------------|--------|-------|--------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| Chlorobenzene | CBZ | Ave | 20502 914732 | 85408 1892111 | 174986 | | 439149 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,1,2-Tetrachloroethane | CBZ | Ave | 5463 289377 | 22715 645270 | 47538 | | 133901 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Ethylbenzene | CBZ | Ave | 36752 1594445 | 146227 3294118 | 297415 | | 757640 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| m,p-Xylene | CBZ | Ave | 14061 629645 | 57774 1281317 | 118780 | | 297610 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| o-Xylene | CBZ | Ave | 13565 605746 | 55765 1244714 | 113543 | | 295406 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Styrene | CBZ | Ave | 23172 1088363 | 95299 2205286 | 198203 | | 508708 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromoform | CBZ | Ave | 2963 157475 | 10751 371065 | 23181 | | 66776 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Isopropylbenzene | DCB | Ave | 35714 1642054 | 149966 3353619 | 300495 | | 775575 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Bromobenzene | DCB | Ave | 8806 391587 | 35024 801058 | 70369 | | 186964 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,1,2,2-Tetrachloroethane | DCB | Ave | 8904 435876 | 36710 904798 | 78219 | | 203579 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| N-Propylbenzene | DCB | Ave | 44339 1977462 | 176676 3979940 | 363434 | | 946354 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,3-Trichloropropane | DCB | Ave | 3010 137498 | 11563 281260 | 25065 | | 63368 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| trans-1,4-Dichloro-2-butene | DCB | Ave | 1999 161880 | 10916 360650 | 24128 | | 69541 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 2-Chlorotoluene | DCB | Ave | 8707 382415 | 33843 773118 | 70815 | | 184071 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3,5-Trimethylbenzene | DCB | Ave | 30262 1381767 | 125704 2806392 | 252532 | | 646840 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 4-Chlorotoluene | DCB | Ave | 28111 1353120 | 115965 2754745 | 247543 | | 627618 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| tert-Butylbenzene | DCB | Ave | 6794 307396 | 26009 616620 | 56432 | | 145875 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,4-Trimethylbenzene | DCB | Ave | 30067 1447326 | 128851 2949822 | 256681 | | 683034 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| sec-Butylbenzene | DCB | Ave | 39096 1811798 | 159978 3686484 | 325094 | | 852954 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,3-Dichlorobenzene | DCB | Ave | 18003 789724 | 69441 1588003 | 141330 | | 374033 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 4-Isopropyltoluene | DCB | Ave | 30826 1575662 | 136701 3180361 | 281717 | | 731385 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |

FORM VI
GC/MS VOA INITIAL CALIBRATION DATA
INTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo

Job No.: 480-62726-1

Analy Batch No.: 190242

SDG No.: _____

Instrument ID: HP5975T

GC Column: ZB-624 (60) ID: 0.25 (mm)

Heated Purge: (Y/N) N

Calibration Start Date: 06/27/2014 14:16

Calibration End Date: 06/27/2014 16:39

Calibration ID: 19161

| ANALYTE | IS REF | CURVE TYPE | RESPONSE | | | | | CONCENTRATION (UG/L) | | | | |
|------------------------------|--------|------------|------------------|-------------------|--------|--------|--------|----------------------|----------------|-------|-------|-------|
| | | | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 | LVL 1 LVL 6 | LVL 2 LVL 7 | LVL 3 | LVL 4 | LVL 5 |
| 1,4-Dichlorobenzene | DCB | Ave | 17157 805320 | 72412 1653314 | 145036 | | 383290 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| n-Butylbenzene | DCB | Ave | 29998 1469164 | 123802 2925600 | 253025 | | 683940 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dichlorobenzene | DCB | Ave | 15622 775633 | 67757 1554845 | 135680 | | 363888 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2-Dibromo-3-Chloropropane | DCB | Ave | 914 69489 | 5259 154663 | 10082 | | 30420 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,4-Trichlorobenzene | DCB | Ave | 9529 491828 | 42923 987310 | 86161 | | 234249 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Hexachlorobutadiene | DCB | Ave | 4761 219772 | 19378 441605 | 39971 | 1673 | 104505 | 1.00 50.0 | 5.00 100 | 10.0 | 0.400 | 25.0 |
| Naphthalene | DCB | Ave | 23320 1401997 | 111655 2791786 | 237155 | | 643314 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| 1,2,3-Trichlorobenzene | DCB | Ave | 8879 470608 | 36751 905428 | 81567 | | 218437 | 1.00 50.0 | 5.00 100 | 10.0 | | 25.0 |
| Dibromofluoromethane (Surr) | FB | Ave | 145640 159783 | 142955 165649 | 147269 | 140116 | 153254 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| 1,2-Dichloroethane-d4 (Surr) | FB | Ave | 183580 196364 | 185482 207766 | 187818 | 177517 | 188339 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| Toluene-d8 (Surr) | CBZ | Ave | 550551 568593 | 539827 600391 | 557328 | 542142 | 568457 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |
| 4-Bromofluorobenzene (Surr) | CBZ | Ave | 158344 171158 | 162900 178793 | 158602 | 156475 | 171812 | 25.0 25.0 | 25.0 25.0 | 25.0 | 25.0 | 25.0 |

Curve Type Legend:

| |
|---------------------------|
| Ave = Average ISTD |
| Lin1 = Linear 1/conc ISTD |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2721.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 27-Jun-2014 14:16:30 ALS Bottle#: 32 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 0.4
 Misc. Info.: 480-0033352-008
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:15 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:15

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.336 | 4.335 | 0.001 | 98 | 563202 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 423369 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 96 | 207774 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 58 | 140116 | 25.0 | 24.6 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 177517 | 25.0 | 24.8 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 93 | 542142 | 25.0 | 25.4 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 90 | 156475 | 25.0 | 24.8 | |
| 11 Dichlorodifluoromethane | 85 | | 0.916 | | | | | ND | |
| 13 Chloromethane | 50 | | 1.030 | | | | | ND | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 59 | 4116 | 0.4000 | 0.5466 | |
| 151 Butadiene | 54 | | 1.123 | | | | | ND | |
| 15 Bromomethane | 94 | | 1.320 | | | | | ND | |
| 16 Chloroethane | 64 | | 1.392 | | | | | ND | |
| 17 Trichlorofluoromethane | 101 | | 1.558 | | | | | ND | |
| 18 Dichlorofluoromethane | 67 | | 1.569 | | | | | ND | |
| 19 Ethyl ether | 59 | | 1.797 | | | | | ND | |
| 21 Acrolein | 56 | | 1.962 | | | | | ND | |
| 22 1,1-Dichloroethene | 96 | | 1.973 | | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 1.983 | | | | | ND | |
| 24 Iodomethane | 142 | | 2.108 | | | | | ND | |
| 23 Acetone | 43 | | 2.108 | | | | | ND | |
| 25 Carbon disulfide | 76 | | 2.128 | | | | | ND | |
| 27 3-Chloro-1-propene | 41 | | 2.304 | | | | | ND | |
| 28 Methyl acetate | 43 | | 2.377 | | | | | ND | |
| 30 Methylene Chloride | 84 | | 2.439 | | | | | ND | |
| 33 Methyl tert-butyl ether | 73 | | 2.636 | | | | | ND | |
| 31 2-Methyl-2-propanol | 59 | | 2.636 | | | | | ND | |
| 32 trans-1,2-Dichloroethene | 96 | | 2.636 | | | | | ND | |
| 34 Acrylonitrile | 53 | 2.719 | 2.709 | 0.010 | 96 | 14357 | 4.00 | 4.52 | |
| 35 Hexane | 57 | | 2.812 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|----------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | | 3.009 | | | | | ND | |
| 39 Vinyl acetate | 43 | | 3.071 | | | | | ND | |
| 42 2,2-Dichloropropane | 77 | | 3.444 | | | | | ND | |
| 43 cis-1,2-Dichloroethene | 96 | | 3.475 | | | | | ND | |
| 44 2-Butanone (MEK) | 43 | | 3.538 | | | | | ND | |
| 47 Chlorobromomethane | 128 | | 3.672 | | | | | ND | |
| 48 Tetrahydrofuran | 42 | | 3.703 | | | | | ND | |
| 50 Chloroform | 83 | | 3.745 | | | | | ND | |
| 52 Cyclohexane | 56 | | 3.817 | | | | | ND | |
| 51 1,1,1-Trichloroethane | 97 | | 3.828 | | | | | ND | |
| 53 Carbon tetrachloride | 117 | | 3.931 | | | | | ND | |
| 54 1,1-Dichloropropene | 75 | | 3.952 | | | | | ND | |
| 55 Benzene | 78 | | 4.118 | | | | | ND | |
| 56 Isobutyl alcohol | 43 | | 4.180 | | | | | ND | |
| 57 1,2-Dichloroethane | 62 | | 4.180 | | | | | ND | |
| 59 n-Heptane | 43 | | 4.263 | | | | | ND | |
| 60 Trichloroethene | 95 | | 4.605 | | | | | ND | |
| 62 Methylcyclohexane | 83 | | 4.688 | | | | | ND | |
| 63 1,2-Dichloropropane | 63 | | 4.802 | | | | | ND | |
| 65 Dibromomethane | 93 | | 4.906 | | | | | ND | |
| 66 1,4-Dioxane | 88 | | 4.937 | | | | | ND | |
| 67 Dichlorobromomethane | 83 | | 5.030 | | | | | ND | |
| 69 2-Chloroethyl vinyl ether | 63 | | 5.258 | | | | | ND | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 39 | 4805 | 0.4000 | 0.4965 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | | 5.475 | | | | | ND | |
| 73 Toluene | 92 | | 5.569 | | | | | ND | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 53 | 2813 | 0.4000 | 0.3571 | |
| 77 Ethyl methacrylate | 69 | | 5.838 | | | | | ND | |
| 78 1,1,2-Trichloroethane | 83 | | 5.931 | | | | | ND | |
| 79 Tetrachloroethene | 166 | | 5.963 | | | | | ND | |
| 80 1,3-Dichloropropane | 76 | | 6.045 | | | | | ND | |
| 81 2-Hexanone | 43 | | 6.118 | | | | | ND | |
| 82 Chlorodibromomethane | 129 | | 6.222 | | | | | ND | |
| 83 Ethylene Dibromide | 107 | | 6.294 | | | | | ND | |
| 86 Chlorobenzene | 112 | | 6.657 | | | | | ND | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 6.729 | | | | | ND | |
| 88 Ethylbenzene | 91 | | 6.729 | | | | | ND | |
| 90 m-Xylene & p-Xylene | 106 | | 6.823 | | | | | ND | |
| 91 o-Xylene | 106 | | 7.134 | | | | | ND | |
| 92 Styrene | 104 | | 7.154 | | | | | ND | |
| 93 Bromoform | 173 | | 7.330 | | | | | ND | |
| 95 Isopropylbenzene | 105 | | 7.413 | | | | | ND | |
| 97 Bromobenzene | 156 | | 7.672 | | | | | ND | |
| 98 1,1,2,2-Tetrachloroethane | 83 | | 7.724 | | | | | ND | |
| 99 N-Propylbenzene | 91 | | 7.745 | | | | | ND | |
| 100 1,2,3-Trichloropropane | 110 | | 7.755 | | | | | ND | |
| 101 trans-1,4-Dichloro-2-buten | 53 | | 7.766 | | | | | ND | |
| 105 2-Chlorotoluene | 126 | | 7.828 | | | | | ND | |
| 104 1,3,5-Trimethylbenzene | 105 | | 7.890 | | | | | ND | |
| 102 4-Chlorotoluene | 91 | | 7.911 | | | | | ND | |
| 106 tert-Butylbenzene | 134 | | 8.149 | | | | | ND | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.191 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | | 8.325 | | | | | ND | |
| 110 1,3-Dichlorobenzene | 146 | | 8.429 | | | | | ND | |
| 111 4-Isopropyltoluene | 119 | | 8.450 | | | | | ND | |
| 113 1,4-Dichlorobenzene | 146 | | 8.512 | | | | | ND | |
| 115 n-Butylbenzene | 91 | | 8.781 | | | | | ND | |
| 116 1,2-Dichlorobenzene | 146 | | 8.812 | | | | | ND | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 9.486 | | | | | ND | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.118 | | | | | ND | |
| 120 Hexachlorobutadiene | 225 | 10.243 | 10.232 | 0.011 | 31 | 1673 | 0.4000 | 0.4344 | |
| 121 Naphthalene | 128 | | 10.336 | | | | | ND | |
| 122 1,2,3-Trichlorobenzene | 180 | | 10.533 | | | | | ND | |
| S 125 Total BTEX | 1 | | 30.000 | | | | | 0 | |
| S 126 Xylenes, Total | 1 | | 30.000 | | | | | 0 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 0.8535 | |
| S 124 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | 0 | |

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

| | | | |
|---------------------|--------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 0.40 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 0.40 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2721.D

Injection Date: 27-Jun-2014 14:16:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 0.4

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

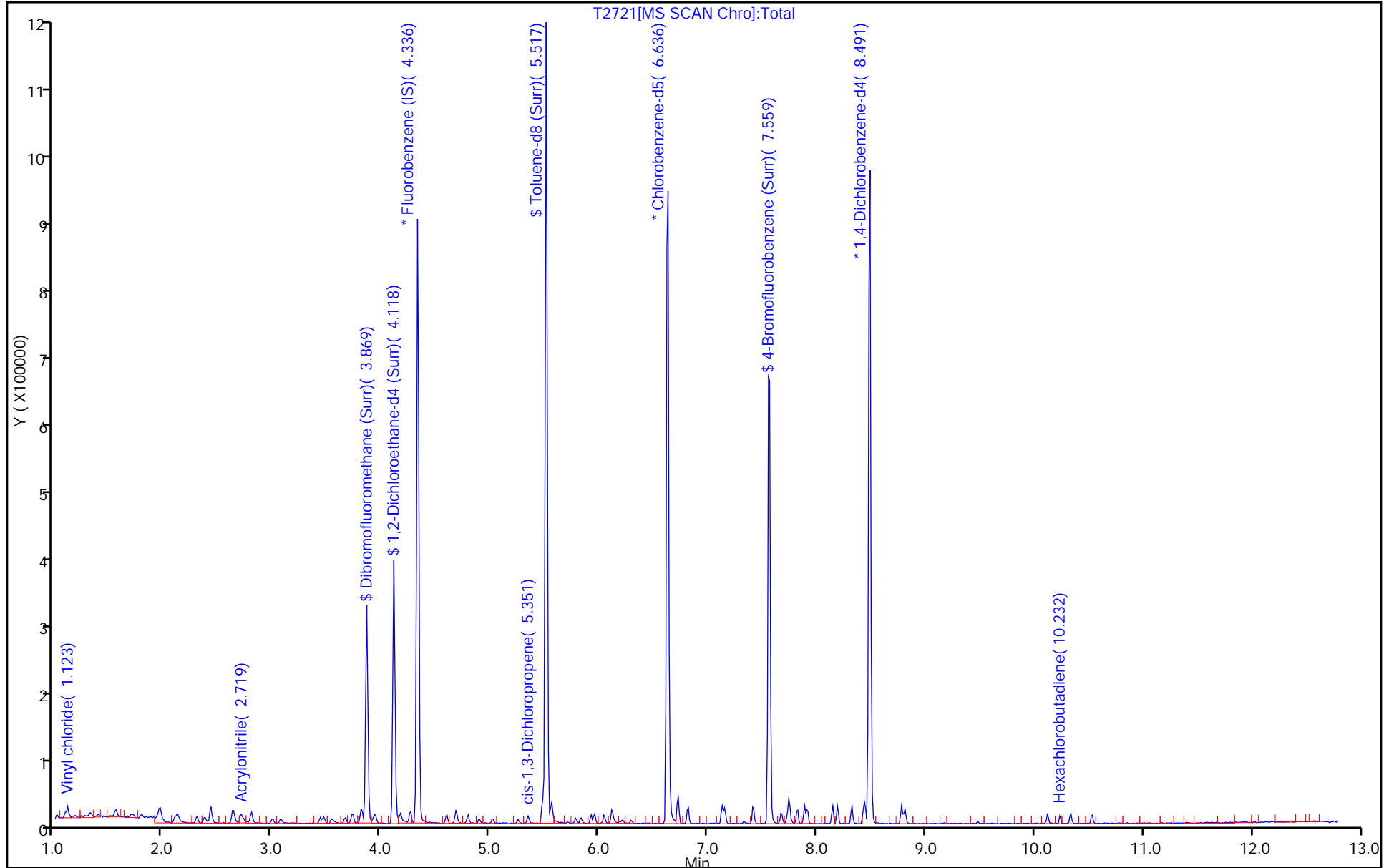
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2722.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 27-Jun-2014 14:39:30 ALS Bottle#: 33 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 480-0033352-009
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:24 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICAL File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:24

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 98 | 582268 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 435674 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 95 | 214565 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 57 | 145640 | 25.0 | 24.7 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 183580 | 25.0 | 24.8 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 93 | 550551 | 25.0 | 25.0 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 91 | 158344 | 25.0 | 24.4 | |
| 11 Dichlorodifluoromethane | 85 | 0.905 | 0.916 | -0.011 | 73 | 7085 | 1.00 | 1.07 | |
| 13 Chloromethane | 50 | 1.019 | 1.030 | -0.011 | 82 | 10306 | 1.00 | 1.14 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 73 | 8302 | 1.00 | 1.07 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 94 | 8386 | 1.00 | 1.07 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 79 | 3923 | 1.00 | 1.29 | |
| 16 Chloroethane | 64 | 1.382 | 1.392 | -0.010 | 64 | 5386 | 1.00 | 1.35 | |
| 17 Trichlorofluoromethane | 101 | 1.548 | 1.558 | -0.010 | 69 | 8795 | 1.00 | 1.04 | |
| 18 Dichlorofluoromethane | 67 | 1.558 | 1.569 | -0.011 | 85 | 10723 | 1.00 | 1.30 | |
| 19 Ethyl ether | 59 | 1.797 | 1.797 | 0.000 | 80 | 8141 | 1.00 | 1.23 | |
| 21 Acrolein | 56 | 1.952 | 1.962 | -0.010 | 83 | 7957 | 5.00 | 7.03 | |
| 22 1,1-Dichloroethene | 96 | 1.962 | 1.973 | -0.011 | 80 | 6839 | 1.00 | 1.28 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.973 | 1.983 | -0.010 | 46 | 7104 | 1.00 | 1.21 | |
| 23 Acetone | 43 | 2.107 | 2.108 | -0.001 | 94 | 20679 | 5.00 | 6.68 | |
| 24 Iodomethane | 142 | 2.097 | 2.108 | -0.011 | 93 | 11907 | 1.00 | 1.18 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 99 | 25881 | 1.00 | 1.25 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 75 | 15930 | 1.00 | 1.23 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 97 | 44074 | 5.00 | 6.14 | |
| 30 Methylene Chloride | 84 | 2.429 | 2.439 | -0.010 | 87 | 13843 | 1.00 | 1.00 | |
| 33 Methyl tert-butyl ether | 73 | 2.646 | 2.636 | 0.010 | 84 | 22602 | 1.00 | 1.13 | |
| 31 2-Methyl-2-propanol | 59 | 2.657 | 2.636 | 0.021 | 50 | 10151 | 10.0 | 10.2 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 88 | 8636 | 1.00 | 1.28 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.709 | -0.001 | 99 | 36997 | 10.0 | 11.3 | |
| 35 Hexane | 57 | 2.802 | 2.812 | -0.010 | 90 | 17171 | 1.00 | 1.39 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 3.009 | -0.010 | 73 | 15989 | 1.00 | 1.22 | |
| 39 Vinyl acetate | 43 | 3.082 | 3.071 | 0.011 | 95 | 27492 | 2.00 | 1.95 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 69 | 9217 | 1.00 | 1.24 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 52 | 8861 | 1.00 | 1.25 | |
| 44 2-Butanone (MEK) | 43 | 3.548 | 3.538 | 0.010 | 97 | 25598 | 5.00 | 5.62 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 82 | 4513 | 1.00 | 1.26 | |
| 48 Tetrahydrofuran | 42 | 3.714 | 3.703 | 0.011 | 88 | 8094 | 2.00 | 2.60 | |
| 50 Chloroform | 83 | 3.734 | 3.745 | -0.011 | 75 | 14953 | 1.00 | 1.29 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 94 | 16112 | 1.00 | 1.15 | |
| 51 1,1,1-Trichloroethane | 97 | 3.817 | 3.828 | -0.011 | 71 | 10568 | 1.00 | 1.16 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 63 | 8936 | 1.00 | 1.21 | |
| 54 1,1-Dichloropropene | 75 | 3.942 | 3.952 | -0.010 | 79 | 9688 | 1.00 | 1.14 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 45 | 31779 | 1.00 | 1.23 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 75 | 12279 | 1.00 | 1.19 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 45 | 9571 | 25.0 | 22.8 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 91 | 20093 | 1.00 | 1.41 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 82 | 7352 | 1.00 | 1.12 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 87 | 13236 | 1.00 | 1.16 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 74 | 8506 | 1.00 | 1.17 | |
| 65 Dibromomethane | 93 | 4.905 | 4.906 | -0.001 | 79 | 5146 | 1.00 | 1.19 | |
| 66 1,4-Dioxane | 88 | 4.947 | 4.937 | 0.010 | 27 | 1600 | 20.0 | 19.4 | |
| 67 Dichlorobromomethane | 83 | 5.019 | 5.030 | -0.011 | 79 | 7926 | 1.00 | 1.07 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 72 | 4866 | 1.00 | 1.06 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 63 | 10533 | 1.00 | 1.05 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.486 | 5.475 | 0.011 | 96 | 57146 | 5.00 | 5.63 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 92 | 19251 | 1.00 | 1.19 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 78 | 8772 | 1.00 | 1.08 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 69 | 9005 | 1.00 | 1.05 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 80 | 5638 | 1.00 | 1.15 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.963 | -0.001 | 85 | 8351 | 1.00 | 1.26 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 85 | 12494 | 1.00 | 1.19 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 96 | 37593 | 5.00 | 5.24 | |
| 82 Chlorodibromomethane | 129 | 6.222 | 6.222 | 0.000 | 43 | 5408 | 1.00 | 1.08 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 69 | 6872 | 1.00 | 1.14 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 82 | 20502 | 1.00 | 1.15 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 22 | 5463 | 1.00 | 1.04 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 96 | 36752 | 1.00 | 1.19 | |
| 90 m-Xylene & p-Xylene | 106 | 6.823 | 6.823 | 0.000 | 0 | 14061 | 1.00 | 1.16 | |
| 91 o-Xylene | 106 | 7.134 | 7.134 | 0.000 | 95 | 13565 | 1.00 | 1.16 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 86 | 23172 | 1.00 | 1.13 | |
| 93 Bromoform | 173 | 7.341 | 7.330 | 0.011 | 65 | 2963 | 1.00 | 1.08 | |
| 95 Isopropylbenzene | 105 | 7.424 | 7.413 | 0.011 | 90 | 35714 | 1.00 | 1.21 | |
| 97 Bromobenzene | 156 | 7.683 | 7.672 | 0.011 | 91 | 8806 | 1.00 | 1.25 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 74 | 8904 | 1.00 | 1.17 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 97 | 44339 | 1.00 | 1.24 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 59 | 3010 | 1.00 | 1.24 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 24 | 1999 | 1.00 | 0.8169 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 94 | 8707 | 1.00 | 1.26 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 89 | 30262 | 1.00 | 1.22 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 91 | 28111 | 1.00 | 1.18 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 88 | 6794 | 1.00 | 1.24 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.191 | 8.191 | 0.000 | 93 | 30067 | 1.00 | 1.18 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 82 | 39096 | 1.00 | 1.21 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 96 | 18003 | 1.00 | 1.27 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 90 | 30826 | 1.00 | 1.13 | |
| 113 1,4-Dichlorobenzene | 146 | 8.512 | 8.512 | 0.000 | 76 | 17157 | 1.00 | 1.19 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 95 | 29998 | 1.00 | 1.18 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 83 | 15622 | 1.00 | 1.16 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 4 | 914 | 1.00 | 0.8486 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 77 | 9529 | 1.00 | 1.12 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 64 | 4761 | 1.00 | 1.20 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 85 | 23320 | 1.00 | 1.01 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.533 | 10.533 | 0.000 | 80 | 8879 | 1.00 | 1.13 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 2.13 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 2.53 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 5.93 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 2.31 | |

Reagents:

| | | | |
|---------------------|--------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 1.00 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 1.00 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2722.D

Injection Date: 27-Jun-2014 14:39:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

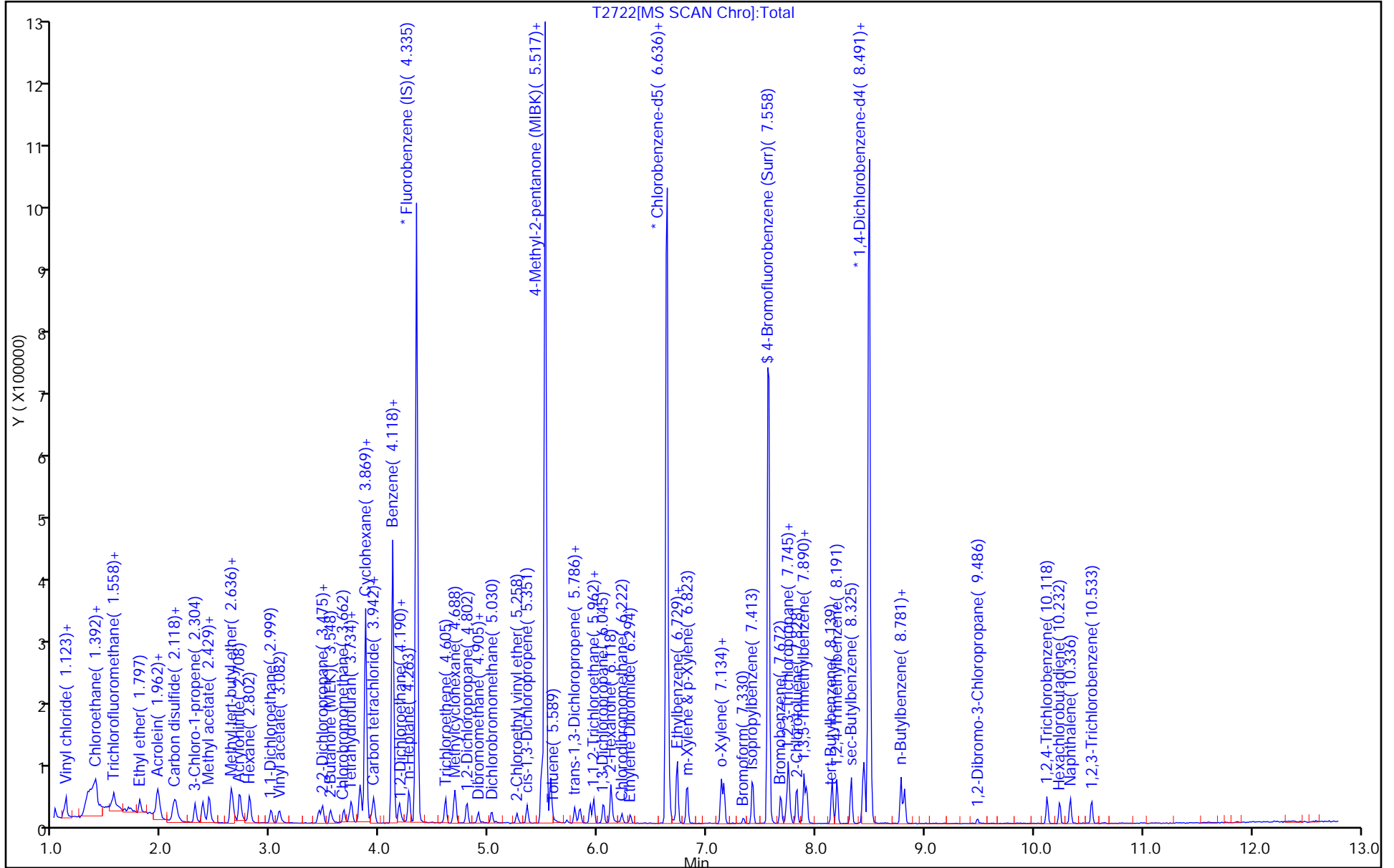
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2723.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 27-Jun-2014 15:03:30 ALS Bottle#: 34 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 2
 Misc. Info.: 480-0033352-010
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:27 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:27

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.336 | 4.335 | 0.001 | 98 | 580480 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 85 | 436180 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 94 | 222175 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 57 | 142955 | 25.0 | 24.3 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 185482 | 25.0 | 25.1 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 92 | 539827 | 25.0 | 24.5 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 91 | 162900 | 25.0 | 25.1 | |
| 11 Dichlorodifluoromethane | 85 | 0.905 | 0.916 | -0.011 | 86 | 33784 | 5.00 | 5.13 | |
| 13 Chloromethane | 50 | 1.019 | 1.030 | -0.011 | 89 | 44496 | 5.00 | 4.92 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 83 | 34621 | 5.00 | 4.46 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 96 | 39727 | 5.00 | 5.07 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 95 | 15587 | 5.00 | 5.15 | |
| 16 Chloroethane | 64 | 1.392 | 1.392 | 0.000 | 92 | 18773 | 5.00 | 4.72 | |
| 17 Trichlorofluoromethane | 101 | 1.558 | 1.558 | 0.000 | 77 | 41970 | 5.00 | 4.98 | |
| 18 Dichlorofluoromethane | 67 | 1.558 | 1.569 | -0.011 | 77 | 41426 | 5.00 | 5.05 | |
| 19 Ethyl ether | 59 | 1.797 | 1.797 | 0.000 | 95 | 32714 | 5.00 | 4.96 | |
| 21 Acrolein | 56 | 1.962 | 1.962 | 0.000 | 94 | 26840 | 25.0 | 23.8 | |
| 22 1,1-Dichloroethene | 96 | 1.962 | 1.973 | -0.011 | 84 | 27304 | 5.00 | 5.12 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.973 | 1.983 | -0.010 | 56 | 28758 | 5.00 | 4.89 | |
| 24 Iodomethane | 142 | 2.108 | 2.108 | 0.000 | 97 | 50109 | 5.00 | 4.98 | |
| 23 Acetone | 43 | 2.108 | 2.108 | 0.000 | 98 | 72742 | 25.0 | 23.6 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 98 | 99984 | 5.00 | 4.84 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 84 | 62997 | 5.00 | 4.88 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 97 | 165255 | 25.0 | 23.1 | |
| 30 Methylene Chloride | 84 | 2.439 | 2.439 | 0.000 | 91 | 38270 | 5.00 | 4.92 | |
| 33 Methyl tert-butyl ether | 73 | 2.646 | 2.636 | 0.010 | 89 | 94377 | 5.00 | 4.72 | |
| 31 2-Methyl-2-propanol | 59 | 2.646 | 2.636 | 0.010 | 44 | 46975 | 50.0 | 47.1 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 88 | 32415 | 5.00 | 4.82 | |
| 34 Acrylonitrile | 53 | 2.709 | 2.709 | 0.000 | 99 | 149032 | 50.0 | 45.5 | |
| 35 Hexane | 57 | 2.802 | 2.812 | -0.010 | 94 | 55890 | 5.00 | 4.53 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 3.009 | -0.010 | 86 | 63189 | 5.00 | 4.82 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 98 | 124359 | 10.0 | 8.83 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 88 | 36884 | 5.00 | 4.98 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 68 | 32594 | 5.00 | 4.60 | |
| 44 2-Butanone (MEK) | 43 | 3.538 | 3.538 | 0.000 | 99 | 108994 | 25.0 | 24.0 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 92 | 16567 | 5.00 | 4.63 | |
| 48 Tetrahydrofuran | 42 | 3.714 | 3.703 | 0.011 | 91 | 28347 | 10.0 | 9.12 | |
| 50 Chloroform | 83 | 3.735 | 3.745 | -0.010 | 83 | 55227 | 5.00 | 4.78 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 96 | 65728 | 5.00 | 4.71 | |
| 51 1,1,1-Trichloroethane | 97 | 3.828 | 3.828 | 0.000 | 89 | 43232 | 5.00 | 4.76 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 77 | 33540 | 5.00 | 4.54 | |
| 54 1,1-Dichloropropene | 75 | 3.942 | 3.952 | -0.010 | 85 | 41108 | 5.00 | 4.83 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 70 | 125588 | 5.00 | 4.87 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 87 | 41750 | 125.0 | 99.7 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 89 | 47686 | 5.00 | 4.64 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 98 | 67579 | 5.00 | 4.77 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 90 | 32551 | 5.00 | 4.97 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 96 | 56876 | 5.00 | 5.01 | |
| 63 1,2-Dichloropropane | 63 | 4.792 | 4.802 | -0.010 | 86 | 34597 | 5.00 | 4.78 | |
| 65 Dibromomethane | 93 | 4.906 | 4.906 | 0.000 | 84 | 20065 | 5.00 | 4.65 | |
| 66 1,4-Dioxane | 88 | 4.947 | 4.937 | 0.010 | 74 | 7524 | 100.0 | 91.3 | |
| 67 Dichlorobromomethane | 83 | 5.030 | 5.030 | 0.000 | 89 | 31947 | 5.00 | 4.33 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 88 | 20615 | 5.00 | 4.51 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 79 | 42494 | 5.00 | 4.26 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.476 | 5.475 | 0.001 | 99 | 233058 | 25.0 | 22.9 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 96 | 77087 | 5.00 | 4.78 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 91 | 35424 | 5.00 | 4.36 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 92 | 37607 | 5.00 | 4.38 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 88 | 22017 | 5.00 | 4.47 | |
| 79 Tetrachloroethene | 166 | 5.963 | 5.963 | 0.000 | 80 | 30827 | 5.00 | 4.63 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 96 | 50085 | 5.00 | 4.76 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 99 | 159235 | 25.0 | 22.2 | |
| 82 Chlorodibromomethane | 129 | 6.222 | 6.222 | 0.000 | 84 | 20322 | 5.00 | 4.05 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 96 | 27023 | 5.00 | 4.48 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 95 | 85408 | 5.00 | 4.79 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 37 | 22715 | 5.00 | 4.34 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 146227 | 5.00 | 4.72 | |
| 90 m-Xylene & p-Xylene | 106 | 6.812 | 6.823 | -0.011 | 0 | 57774 | 5.00 | 4.76 | |
| 91 o-Xylene | 106 | 7.134 | 7.134 | 0.000 | 97 | 55765 | 5.00 | 4.74 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 96 | 95299 | 5.00 | 4.66 | |
| 93 Bromoform | 173 | 7.331 | 7.330 | 0.000 | 85 | 10751 | 5.00 | 3.92 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 96 | 149966 | 5.00 | 4.90 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 95 | 35024 | 5.00 | 4.79 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 83 | 36710 | 5.00 | 4.65 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 99 | 176676 | 5.00 | 4.78 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 76 | 11563 | 5.00 | 4.58 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 69 | 10916 | 5.00 | 4.31 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 33843 | 5.00 | 4.71 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 96 | 125704 | 5.00 | 4.89 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 115965 | 5.00 | 4.70 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 92 | 26009 | 5.00 | 4.59 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.191 | 8.191 | 0.000 | 97 | 128851 | 5.00 | 4.87 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 93 | 159978 | 5.00 | 4.79 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 97 | 69441 | 5.00 | 4.73 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 96 | 136701 | 5.00 | 4.83 | |
| 113 1,4-Dichlorobenzene | 146 | 8.502 | 8.512 | -0.010 | 82 | 72412 | 5.00 | 4.86 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 97 | 123802 | 5.00 | 4.71 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 94 | 67757 | 5.00 | 4.85 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 54 | 5259 | 5.00 | 4.72 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 42923 | 5.00 | 4.87 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 87 | 19378 | 5.00 | 4.71 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 97 | 111655 | 5.00 | 4.69 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.533 | 10.533 | 0.000 | 91 | 36751 | 5.00 | 4.51 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 23.9 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 9.50 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 8.62 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 9.43 | |

Reagents:

| | | | |
|---------------------|--------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 5.00 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 5.00 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2723.D

Injection Date: 27-Jun-2014 15:03:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 2

Worklist Smp#: 10

Client ID:

Purge Vol: 5.000 mL

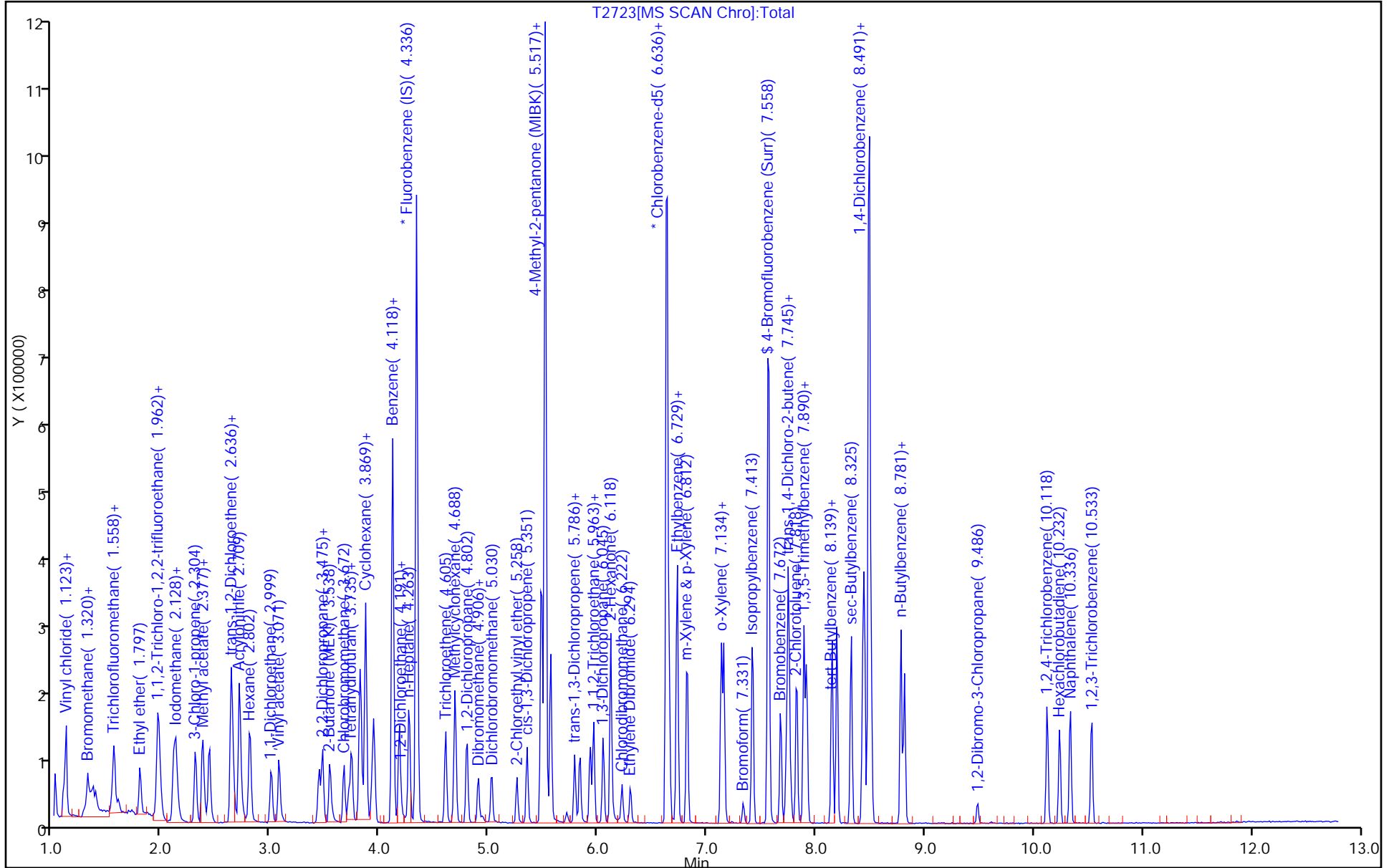
Dil. Factor: 1.0000

ALS Bottle#: 34

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2724.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 27-Jun-2014 15:27:30 ALS Bottle#: 35 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 3
 Misc. Info.: 480-0033352-011
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:31 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:31

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 98 | 583755 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 438774 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 90 | 222999 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 57 | 147269 | 25.0 | 24.9 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 187818 | 25.0 | 25.3 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 92 | 557328 | 25.0 | 25.2 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 93 | 158602 | 25.0 | 24.3 | |
| 11 Dichlorodifluoromethane | 85 | 0.916 | 0.916 | 0.000 | 86 | 65446 | 10.0 | 9.89 | |
| 13 Chloromethane | 50 | 1.030 | 1.030 | 0.000 | 89 | 86388 | 10.0 | 9.51 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 84 | 71731 | 10.0 | 9.19 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 93 | 78480 | 10.0 | 9.96 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 95 | 29565 | 10.0 | 9.72 | |
| 16 Chloroethane | 64 | 1.392 | 1.392 | 0.000 | 84 | 37128 | 10.0 | 9.28 | |
| 17 Trichlorofluoromethane | 101 | 1.558 | 1.558 | 0.000 | 82 | 82395 | 10.0 | 9.72 | |
| 18 Dichlorofluoromethane | 67 | 1.568 | 1.568 | 0.000 | 78 | 77522 | 10.0 | 9.40 | |
| 19 Ethyl ether | 59 | 1.796 | 1.796 | 0.000 | 98 | 66230 | 10.0 | 9.99 | |
| 21 Acrolein | 56 | 1.962 | 1.962 | 0.000 | 95 | 52446 | 50.0 | 46.2 | |
| 22 1,1-Dichloroethene | 96 | 1.962 | 1.962 | 0.000 | 84 | 50425 | 10.0 | 9.40 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.973 | 1.973 | 0.000 | 80 | 57628 | 10.0 | 9.75 | |
| 23 Acetone | 43 | 2.107 | 2.107 | 0.000 | 98 | 148444 | 50.0 | 47.8 | |
| 24 Iodomethane | 142 | 2.107 | 2.107 | 0.000 | 99 | 100058 | 10.0 | 9.89 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 98 | 199488 | 10.0 | 9.60 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 84 | 121308 | 10.0 | 9.34 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 97 | 339490 | 50.0 | 47.2 | |
| 30 Methylene Chloride | 84 | 2.439 | 2.439 | 0.000 | 89 | 69756 | 10.0 | 9.90 | |
| 33 Methyl tert-butyl ether | 73 | 2.646 | 2.646 | 0.000 | 92 | 201402 | 10.0 | 10.0 | |
| 31 2-Methyl-2-propanol | 59 | 2.646 | 2.646 | 0.000 | 44 | 91141 | 100.0 | 90.9 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 89 | 64993 | 10.0 | 9.61 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.708 | 0.000 | 98 | 307465 | 100.0 | 93.4 | |
| 35 Hexane | 57 | 2.812 | 2.812 | 0.000 | 95 | 115597 | 10.0 | 9.33 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 2.999 | 0.000 | 86 | 124023 | 10.0 | 9.40 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 97 | 270443 | 20.0 | 19.1 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 87 | 71047 | 10.0 | 9.54 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 69 | 69022 | 10.0 | 9.70 | |
| 44 2-Butanone (MEK) | 43 | 3.537 | 3.537 | 0.000 | 98 | 218224 | 50.0 | 47.8 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 90 | 33538 | 10.0 | 9.32 | |
| 48 Tetrahydrofuran | 42 | 3.714 | 3.714 | 0.000 | 92 | 58603 | 20.0 | 18.8 | |
| 50 Chloroform | 83 | 3.745 | 3.745 | 0.000 | 84 | 109284 | 10.0 | 9.41 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 134886 | 10.0 | 9.62 | |
| 51 1,1,1-Trichloroethane | 97 | 3.828 | 3.828 | 0.000 | 87 | 84533 | 10.0 | 9.26 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 80 | 67005 | 10.0 | 9.02 | |
| 54 1,1-Dichloropropene | 75 | 3.952 | 3.952 | 0.000 | 87 | 80685 | 10.0 | 9.44 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 96 | 247304 | 10.0 | 9.54 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 85 | 100207 | 10.0 | 9.69 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 83 | 95744 | 250.0 | 227.4 | |
| 59 n-Heptane | 43 | 4.273 | 4.273 | 0.000 | 98 | 127361 | 10.0 | 8.93 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 91 | 64843 | 10.0 | 9.85 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 95 | 107953 | 10.0 | 9.45 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 88 | 71098 | 10.0 | 9.77 | |
| 65 Dibromomethane | 93 | 4.905 | 4.905 | 0.000 | 90 | 41913 | 10.0 | 9.67 | |
| 66 1,4-Dioxane | 88 | 4.936 | 4.936 | 0.000 | 91 | 16722 | 200.0 | 201.8 | |
| 67 Dichlorobromomethane | 83 | 5.030 | 5.030 | 0.000 | 90 | 70297 | 10.0 | 9.48 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 93 | 45462 | 10.0 | 9.89 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 84 | 93820 | 10.0 | 9.35 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 99 | 484617 | 50.0 | 47.4 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 97 | 156735 | 10.0 | 9.66 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 92 | 77120 | 10.0 | 9.45 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 92 | 81306 | 10.0 | 9.42 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 89 | 48049 | 10.0 | 9.69 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.962 | 0.000 | 87 | 64111 | 10.0 | 9.57 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 97 | 102654 | 10.0 | 9.69 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 99 | 347855 | 50.0 | 48.1 | |
| 82 Chlorodibromomethane | 129 | 6.221 | 6.221 | 0.000 | 88 | 43929 | 10.0 | 8.70 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 98 | 56832 | 10.0 | 9.37 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 93 | 174986 | 10.0 | 9.76 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 39 | 47538 | 10.0 | 9.03 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 297415 | 10.0 | 9.55 | |
| 90 m-Xylene & p-Xylene | 106 | 6.823 | 6.823 | 0.000 | 0 | 118780 | 10.0 | 9.73 | |
| 91 o-Xylene | 106 | 7.133 | 7.133 | 0.000 | 98 | 113543 | 10.0 | 9.60 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 96 | 198203 | 10.0 | 9.62 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 93 | 23181 | 10.0 | 8.41 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 300495 | 10.0 | 9.78 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 95 | 70369 | 10.0 | 9.58 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 80 | 78219 | 10.0 | 9.86 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 99 | 363434 | 10.0 | 9.79 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 82 | 25065 | 10.0 | 9.90 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 71 | 24128 | 10.0 | 9.49 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 96 | 70815 | 10.0 | 9.82 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 94 | 252532 | 10.0 | 9.79 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 98 | 247543 | 10.0 | 10.0 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 93 | 56432 | 10.0 | 9.92 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.190 | 8.190 | 0.000 | 97 | 256681 | 10.0 | 9.66 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 94 | 325094 | 10.0 | 9.70 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 96 | 141330 | 10.0 | 9.59 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 97 | 281717 | 10.0 | 9.92 | |
| 113 1,4-Dichlorobenzene | 146 | 8.512 | 8.512 | 0.000 | 95 | 145036 | 10.0 | 9.70 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 98 | 253025 | 10.0 | 9.60 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 94 | 135680 | 10.0 | 9.67 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 64 | 10082 | 10.0 | 9.01 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 86161 | 10.0 | 9.73 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 91 | 39971 | 10.0 | 9.67 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 97 | 237155 | 10.0 | 9.93 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.533 | 10.533 | 0.000 | 93 | 81567 | 10.0 | 9.97 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 18.8 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 19.3 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 48.1 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 19.3 | |

Reagents:

| | | | |
|---------------------|--------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 5.00 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 5.00 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2724.D

Injection Date: 27-Jun-2014 15:27:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 3

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

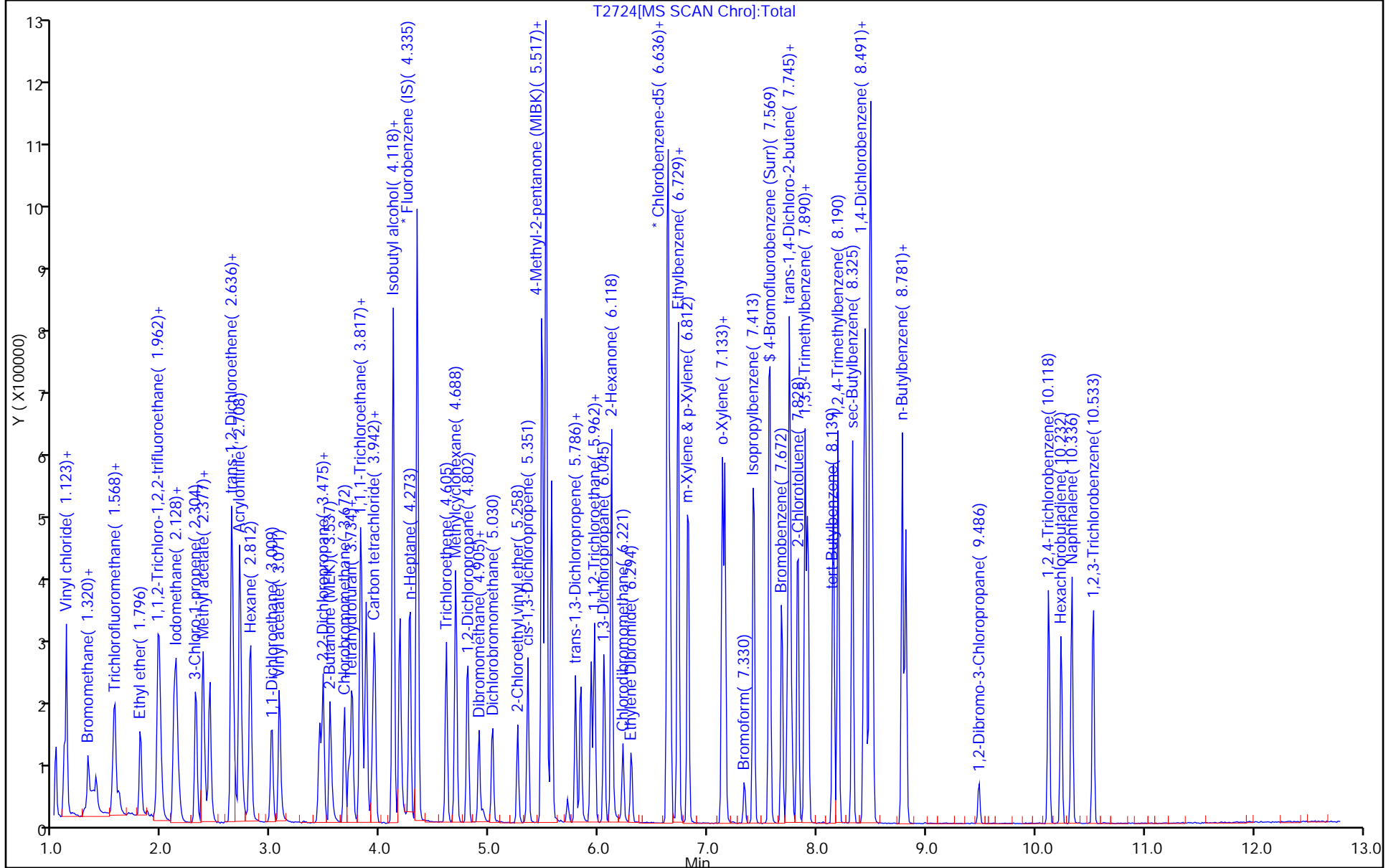
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2725.D
 Lims ID: ICIS 4
 Client ID:
 Sample Type: ICIS Calib Level: 5
 Inject. Date: 27-Jun-2014 15:51:30 ALS Bottle#: 36 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ICIS 4
 Misc. Info.: 480-0033352-012
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:37 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:37

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.336 | 4.336 | 0.000 | 98 | 601471 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 447660 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 95 | 238937 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 64 | 153254 | 25.0 | 25.2 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 188339 | 25.0 | 24.6 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 91 | 568457 | 25.0 | 25.2 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 92 | 171812 | 25.0 | 25.8 | |
| 11 Dichlorodifluoromethane | 85 | 0.916 | 0.916 | 0.000 | 87 | 167289 | 25.0 | 24.5 | |
| 13 Chloromethane | 50 | 1.030 | 1.030 | 0.000 | 89 | 221835 | 25.0 | 23.7 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 83 | 187189 | 25.0 | 23.3 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 95 | 200619 | 25.0 | 24.7 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 94 | 72340 | 25.0 | 23.1 | |
| 16 Chloroethane | 64 | 1.392 | 1.392 | 0.000 | 92 | 95150 | 25.0 | 23.1 | |
| 17 Trichlorofluoromethane | 101 | 1.558 | 1.558 | 0.000 | 83 | 217492 | 25.0 | 24.9 | |
| 18 Dichlorofluoromethane | 67 | 1.569 | 1.569 | 0.000 | 78 | 195935 | 25.0 | 23.1 | |
| 19 Ethyl ether | 59 | 1.797 | 1.797 | 0.000 | 95 | 161048 | 25.0 | 23.6 | |
| 21 Acrolein | 56 | 1.962 | 1.962 | 0.000 | 99 | 135942 | 125.0 | 116.2 | |
| 22 1,1-Dichloroethene | 96 | 1.973 | 1.973 | 0.000 | 84 | 130082 | 25.0 | 23.5 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.983 | 1.983 | 0.000 | 81 | 148236 | 25.0 | 24.3 | |
| 24 Iodomethane | 142 | 2.108 | 2.108 | 0.000 | 98 | 254326 | 25.0 | 24.4 | |
| 23 Acetone | 43 | 2.108 | 2.108 | 0.000 | 98 | 373562 | 125.0 | 116.8 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 99 | 509688 | 25.0 | 23.8 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 85 | 318708 | 25.0 | 23.8 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 97 | 882854 | 125.0 | 119.1 | |
| 30 Methylene Chloride | 84 | 2.439 | 2.439 | 0.000 | 89 | 172907 | 25.0 | 25.5 | |
| 33 Methyl tert-butyl ether | 73 | 2.636 | 2.636 | 0.000 | 91 | 502117 | 25.0 | 24.2 | |
| 31 2-Methyl-2-propanol | 59 | 2.636 | 2.636 | 0.000 | 46 | 263587 | 250.0 | 255.2 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 90 | 164891 | 25.0 | 23.7 | |
| 34 Acrylonitrile | 53 | 2.709 | 2.709 | 0.000 | 98 | 805294 | 250.0 | 237.4 | |
| 35 Hexane | 57 | 2.812 | 2.812 | 0.000 | 95 | 292229 | 25.0 | 22.9 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 3.009 | 3.009 | 0.000 | 86 | 327940 | 25.0 | 24.1 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 98 | 715402 | 50.0 | 49.0 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 89 | 182125 | 25.0 | 23.7 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 72 | 176271 | 25.0 | 24.0 | |
| 44 2-Butanone (MEK) | 43 | 3.538 | 3.538 | 0.000 | 98 | 557503 | 125.0 | 118.6 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 91 | 87343 | 25.0 | 23.6 | |
| 48 Tetrahydrofuran | 42 | 3.703 | 3.703 | 0.000 | 90 | 148679 | 50.0 | 46.2 | |
| 50 Chloroform | 83 | 3.745 | 3.745 | 0.000 | 83 | 281193 | 25.0 | 23.5 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 345235 | 25.0 | 23.9 | |
| 51 1,1,1-Trichloroethane | 97 | 3.828 | 3.828 | 0.000 | 88 | 227055 | 25.0 | 24.1 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 83 | 179080 | 25.0 | 23.4 | |
| 54 1,1-Dichloropropene | 75 | 3.952 | 3.952 | 0.000 | 89 | 214242 | 25.0 | 24.3 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 96 | 625384 | 25.0 | 23.4 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 91 | 275118 | 625.0 | 634.1 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 89 | 253786 | 25.0 | 23.8 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 97 | 338572 | 25.0 | 23.0 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 90 | 163066 | 25.0 | 24.0 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 96 | 283025 | 25.0 | 24.0 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 88 | 179446 | 25.0 | 23.9 | |
| 65 Dibromomethane | 93 | 4.906 | 4.906 | 0.000 | 87 | 108811 | 25.0 | 24.4 | |
| 66 1,4-Dioxane | 88 | 4.937 | 4.937 | 0.000 | 97 | 43594 | 500.0 | 515.6 | |
| 67 Dichlorobromomethane | 83 | 5.030 | 5.030 | 0.000 | 91 | 186378 | 25.0 | 24.4 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 92 | 118361 | 25.0 | 25.0 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 85 | 244649 | 25.0 | 23.7 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 99 | 1267351 | 125.0 | 121.5 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 97 | 393664 | 25.0 | 23.8 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 94 | 211441 | 25.0 | 25.4 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 93 | 218819 | 25.0 | 24.8 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 88 | 125899 | 25.0 | 24.9 | |
| 79 Tetrachloroethene | 166 | 5.963 | 5.963 | 0.000 | 85 | 160403 | 25.0 | 23.5 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 96 | 254119 | 25.0 | 23.5 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 98 | 917847 | 125.0 | 124.5 | |
| 82 Chlorodibromomethane | 129 | 6.222 | 6.222 | 0.000 | 87 | 124868 | 25.0 | 24.2 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 99 | 152192 | 25.0 | 24.6 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 94 | 439149 | 25.0 | 24.0 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 39 | 133901 | 25.0 | 24.9 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 757640 | 25.0 | 23.8 | |
| 90 m-Xylene & p-Xylene | 106 | 6.823 | 6.823 | 0.000 | 0 | 297610 | 25.0 | 23.9 | |
| 91 o-Xylene | 106 | 7.134 | 7.134 | 0.000 | 98 | 295406 | 25.0 | 24.5 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 95 | 508708 | 25.0 | 24.2 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 92 | 66776 | 25.0 | 23.7 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 775575 | 25.0 | 23.6 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 96 | 186964 | 25.0 | 23.8 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 85 | 203579 | 25.0 | 24.0 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 98 | 946354 | 25.0 | 23.8 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 83 | 63368 | 25.0 | 23.4 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 76 | 69541 | 25.0 | 25.5 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 184071 | 25.0 | 23.8 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 94 | 646840 | 25.0 | 23.4 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 627618 | 25.0 | 23.7 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 93 | 145875 | 25.0 | 23.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.191 | 8.191 | 0.000 | 97 | 683034 | 25.0 | 24.0 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 94 | 852954 | 25.0 | 23.8 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 96 | 374033 | 25.0 | 23.7 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 97 | 731385 | 25.0 | 24.0 | |
| 113 1,4-Dichlorobenzene | 146 | 8.512 | 8.512 | 0.000 | 94 | 383290 | 25.0 | 23.9 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 97 | 683940 | 25.0 | 24.2 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 95 | 363888 | 25.0 | 24.2 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 73 | 30420 | 25.0 | 25.4 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 234249 | 25.0 | 24.7 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 92 | 104505 | 25.0 | 23.6 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 97 | 643314 | 25.0 | 25.1 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.533 | 10.533 | 0.000 | 92 | 218437 | 25.0 | 24.9 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 119.4 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 48.4 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 49.1 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 47.7 | |

Reagents:

| | | | |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 12.50 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 12.50 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2725.D

Injection Date: 27-Jun-2014 15:51:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: ICIS 4

Worklist Smp#: 12

Client ID:

Purge Vol: 5.000 mL

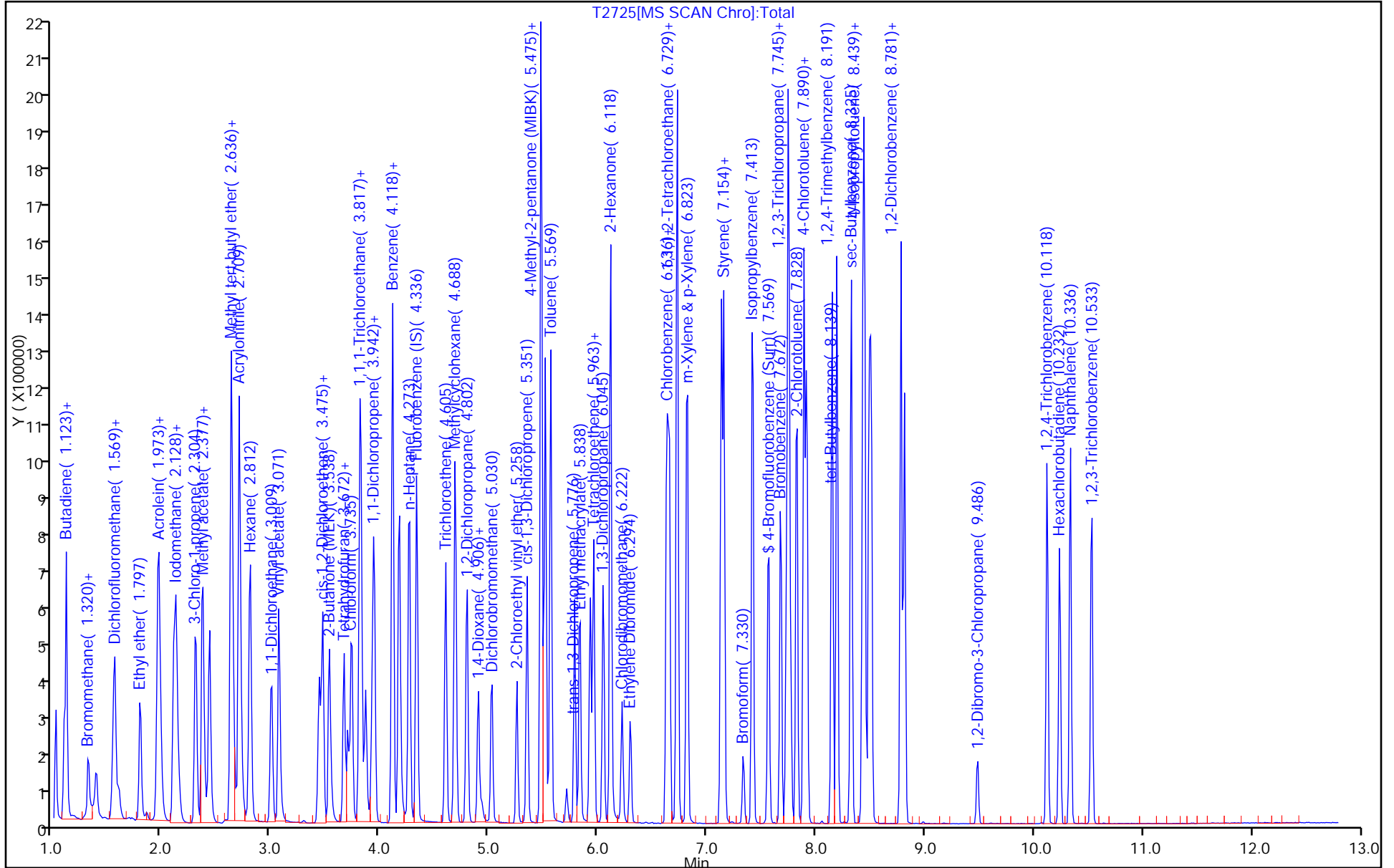
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2726.D
 Lims ID: IC 5
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 27-Jun-2014 16:15:30 ALS Bottle#: 37 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 5
 Misc. Info.: 480-0033352-013
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:41 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:41

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.336 | -0.001 | 98 | 606426 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 461723 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 94 | 249017 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 56 | 159783 | 25.0 | 26.0 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 196364 | 25.0 | 25.4 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 85 | 568593 | 25.0 | 24.4 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 89 | 171158 | 25.0 | 24.9 | |
| 11 Dichlorodifluoromethane | 85 | 0.916 | 0.916 | 0.000 | 87 | 343673 | 50.0 | 50.0 | |
| 13 Chloromethane | 50 | 1.030 | 1.030 | 0.000 | 89 | 473645 | 50.0 | 50.2 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 83 | 382247 | 50.0 | 47.1 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 94 | 411705 | 50.0 | 50.3 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 95 | 145741 | 50.0 | 46.1 | |
| 16 Chloroethane | 64 | 1.392 | 1.392 | 0.000 | 91 | 193675 | 50.0 | 46.6 | |
| 17 Trichlorofluoromethane | 101 | 1.558 | 1.558 | 0.000 | 83 | 451290 | 50.0 | 51.2 | |
| 18 Dichlorofluoromethane | 67 | 1.568 | 1.569 | -0.001 | 78 | 400042 | 50.0 | 46.7 | |
| 19 Ethyl ether | 59 | 1.796 | 1.797 | -0.001 | 97 | 324818 | 50.0 | 47.2 | |
| 22 1,1-Dichloroethene | 96 | 1.973 | 1.973 | 0.000 | 84 | 261537 | 50.0 | 46.9 | |
| 21 Acrolein | 56 | 1.952 | 1.962 | -0.010 | 97 | 268571 | 250.0 | 227.8 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.973 | 1.983 | -0.010 | 85 | 295525 | 50.0 | 48.1 | |
| 23 Acetone | 43 | 2.107 | 2.108 | -0.001 | 98 | 747946 | 250.0 | 232.0 | |
| 24 Iodomethane | 142 | 2.107 | 2.108 | -0.001 | 99 | 505840 | 50.0 | 48.1 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 99 | 1042747 | 50.0 | 48.3 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 85 | 656143 | 50.0 | 48.6 | |
| 28 Methyl acetate | 43 | 2.366 | 2.377 | -0.011 | 99 | 1829984 | 250.0 | 244.8 | |
| 30 Methylene Chloride | 84 | 2.439 | 2.439 | 0.000 | 91 | 336823 | 50.0 | 50.4 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 91 | 332051 | 50.0 | 47.3 | |
| 31 2-Methyl-2-propanol | 59 | 2.636 | 2.636 | 0.000 | 49 | 540420 | 500.0 | 518.9 | |
| 33 Methyl tert-butyl ether | 73 | 2.636 | 2.636 | 0.000 | 89 | 1030157 | 50.0 | 49.3 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.709 | -0.001 | 96 | 1651727 | 500.0 | 483.0 | |
| 35 Hexane | 57 | 2.812 | 2.812 | 0.000 | 96 | 603265 | 50.0 | 46.9 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 3.009 | -0.010 | 86 | 670990 | 50.0 | 49.0 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 97 | 1570753 | 100.0 | 106.8 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 89 | 365588 | 50.0 | 47.2 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 70 | 356081 | 50.0 | 48.2 | |
| 44 2-Butanone (MEK) | 43 | 3.527 | 3.538 | -0.011 | 98 | 1186639 | 250.0 | 250.3 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 90 | 182042 | 50.0 | 48.7 | |
| 48 Tetrahydrofuran | 42 | 3.703 | 3.703 | 0.000 | 91 | 310092 | 100.0 | 95.5 | |
| 50 Chloroform | 83 | 3.745 | 3.745 | 0.000 | 83 | 568749 | 50.0 | 47.2 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 732221 | 50.0 | 50.3 | |
| 51 1,1,1-Trichloroethane | 97 | 3.828 | 3.828 | 0.000 | 93 | 483354 | 50.0 | 51.0 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 82 | 389768 | 50.0 | 50.5 | |
| 54 1,1-Dichloropropene | 75 | 3.952 | 3.952 | 0.000 | 90 | 449203 | 50.0 | 50.6 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 97 | 1307209 | 50.0 | 48.5 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 90 | 528844 | 50.0 | 49.3 | |
| 56 Isobutyl alcohol | 43 | 4.170 | 4.180 | -0.010 | 93 | 631821 | 1250.0 | 1444.4 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 97 | 687337 | 50.0 | 46.4 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 91 | 333663 | 50.0 | 48.8 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 95 | 583845 | 50.0 | 49.2 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 89 | 374728 | 50.0 | 49.5 | |
| 65 Dibromomethane | 93 | 4.905 | 4.906 | -0.001 | 92 | 221276 | 50.0 | 49.1 | |
| 66 1,4-Dioxane | 88 | 4.926 | 4.937 | -0.011 | 94 | 86522 | 1000.0 | 992.1 | |
| 67 Dichlorobromomethane | 83 | 5.030 | 5.030 | 0.000 | 91 | 402569 | 50.0 | 52.3 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 93 | 245345 | 50.0 | 51.4 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 85 | 506889 | 50.0 | 48.6 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 99 | 2686660 | 250.0 | 249.6 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 97 | 819322 | 50.0 | 48.0 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 94 | 449492 | 50.0 | 52.3 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 93 | 478229 | 50.0 | 52.6 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 89 | 259596 | 50.0 | 49.8 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.963 | -0.001 | 86 | 338683 | 50.0 | 48.0 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 96 | 539761 | 50.0 | 48.4 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 99 | 1954794 | 250.0 | 257.0 | |
| 82 Chlorodibromomethane | 129 | 6.221 | 6.222 | -0.001 | 88 | 287926 | 50.0 | 54.2 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 98 | 318234 | 50.0 | 49.9 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 93 | 914732 | 50.0 | 48.5 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 40 | 289377 | 50.0 | 52.2 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 1594445 | 50.0 | 48.6 | |
| 90 m-Xylene & p-Xylene | 106 | 6.812 | 6.823 | -0.011 | 0 | 629645 | 50.0 | 49.0 | |
| 91 o-Xylene | 106 | 7.133 | 7.134 | -0.001 | 98 | 605746 | 50.0 | 48.7 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 95 | 1088363 | 50.0 | 50.2 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 94 | 157475 | 50.0 | 54.3 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 1642054 | 50.0 | 47.9 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 97 | 391587 | 50.0 | 47.8 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 87 | 435876 | 50.0 | 49.2 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 98 | 1977462 | 50.0 | 47.7 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 86 | 137498 | 50.0 | 48.6 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 79 | 161880 | 50.0 | 57.0 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 382415 | 50.0 | 47.5 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 94 | 1381767 | 50.0 | 48.0 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 1353120 | 50.0 | 49.0 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 90 | 307396 | 50.0 | 48.4 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.190 | 8.191 | -0.001 | 98 | 1447326 | 50.0 | 48.8 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 95 | 1811798 | 50.0 | 48.4 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 97 | 789724 | 50.0 | 48.0 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 95 | 1575662 | 50.0 | 49.7 | |
| 113 1,4-Dichlorobenzene | 146 | 8.512 | 8.512 | 0.000 | 95 | 805320 | 50.0 | 48.2 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 98 | 1469164 | 50.0 | 49.9 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 95 | 775633 | 50.0 | 49.5 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 77 | 69489 | 50.0 | 55.6 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 491828 | 50.0 | 49.7 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 92 | 219772 | 50.0 | 47.6 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 97 | 1401997 | 50.0 | 52.5 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.532 | 10.533 | -0.001 | 94 | 470608 | 50.0 | 51.5 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 101.0 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 95.4 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 242.8 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 97.7 | |

Reagents:

| | | | |
|---------------------|---------------------|-----------|-------------|
| 8260 CORP mix_00015 | Amount Added: 25.00 | Units: uL | |
| GAS CORP mix_00034 | Amount Added: 25.00 | Units: uL | |
| T_8260_IS_00079 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2726.D

Injection Date: 27-Jun-2014 16:15:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 5

Worklist Smp#: 13

Client ID:

Purge Vol: 5.000 mL

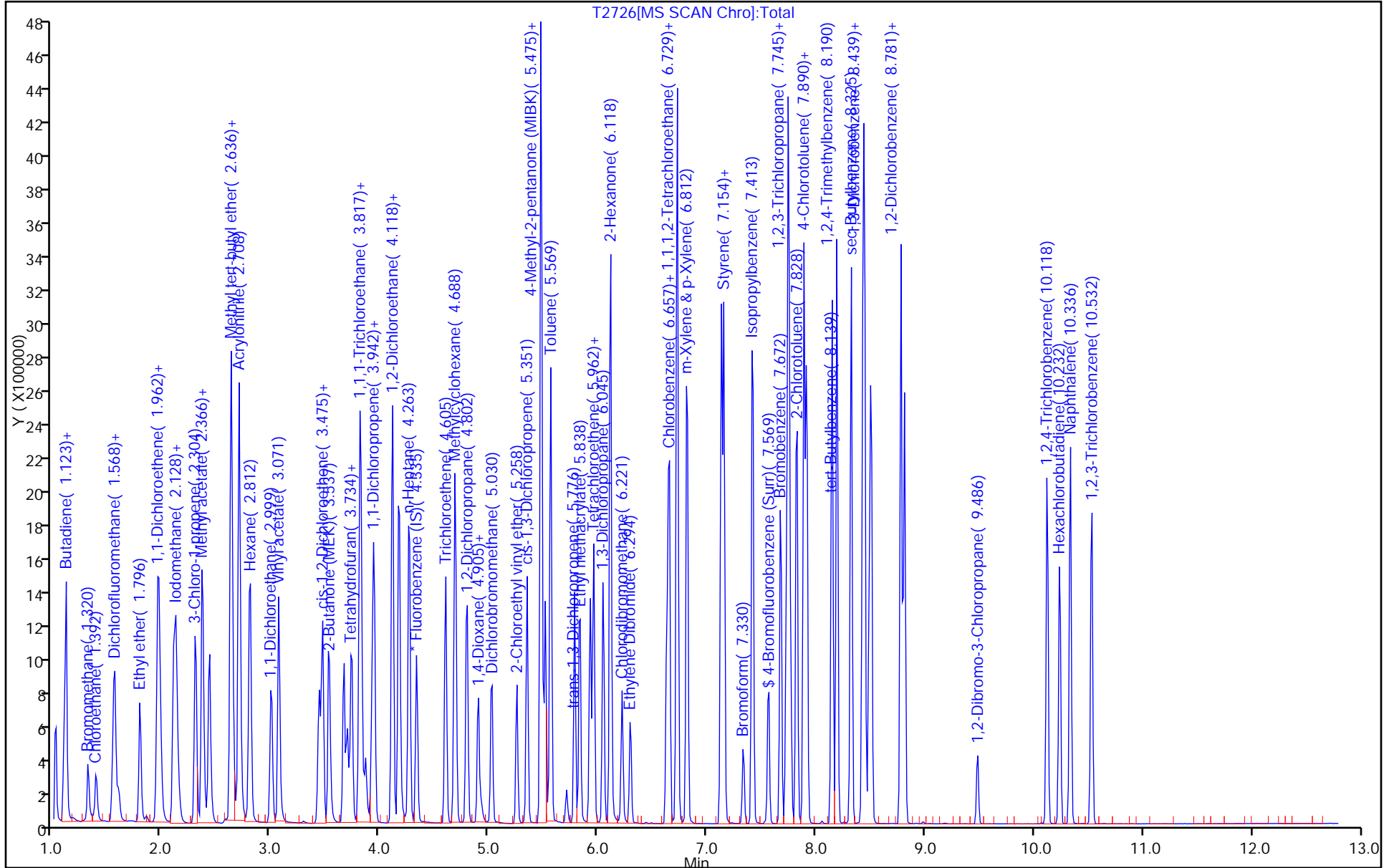
Dil. Factor: 1.0000

ALS Bottle#: 37

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2727.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 27-Jun-2014 16:39:30 ALS Bottle#: 38 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: IC 6
 Misc. Info.: 480-0033352-014
 Operator ID: LH Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 28-Jun-2014 13:52:46 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: nguyendudziakng

Date: 28-Jun-2014 13:52:46

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.336 | -0.001 | 98 | 649727 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 86 | 469803 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 59 | 260868 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 82 | 165649 | 25.0 | 25.2 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 207766 | 25.0 | 25.1 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 91 | 600391 | 25.0 | 25.3 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 89 | 178793 | 25.0 | 25.6 | |
| 11 Dichlorodifluoromethane | 85 | 0.916 | 0.916 | 0.000 | 88 | 686600 | 100.0 | 93.2 | |
| 13 Chloromethane | 50 | 1.030 | 1.030 | 0.000 | 89 | 987399 | 100.0 | 97.6 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 83 | 766153 | 100.0 | 88.2 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 97 | 816504 | 100.0 | 93.1 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 94 | 291558 | 100.0 | 86.1 | |
| 16 Chloroethane | 64 | 1.403 | 1.392 | 0.011 | 92 | 410115 | 100.0 | 92.1 | |
| 17 Trichlorofluoromethane | 101 | 1.568 | 1.558 | 0.010 | 74 | 918026 | 100.0 | 97.3 | |
| 18 Dichlorofluoromethane | 67 | 1.568 | 1.569 | -0.001 | 78 | 815429 | 100.0 | 88.9 | |
| 19 Ethyl ether | 59 | 1.796 | 1.797 | -0.001 | 96 | 658271 | 100.0 | 89.2 | |
| 21 Acrolein | 56 | 1.952 | 1.962 | -0.010 | 98 | 554303 | 500.0 | 438.8 | |
| 22 1,1-Dichloroethene | 96 | 1.973 | 1.973 | 0.000 | 83 | 525025 | 100.0 | 87.9 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.973 | 1.983 | -0.010 | 85 | 595364 | 100.0 | 90.5 | |
| 23 Acetone | 43 | 2.107 | 2.108 | -0.001 | 98 | 1555444 | 500.0 | 450.4 | |
| 24 Iodomethane | 142 | 2.107 | 2.108 | -0.001 | 73 | 1012785 | 100.0 | 89.9 | |
| 25 Carbon disulfide | 76 | 2.128 | 2.128 | 0.000 | 99 | 2099152 | 100.0 | 90.7 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 85 | 1354704 | 100.0 | 93.7 | |
| 28 Methyl acetate | 43 | 2.366 | 2.377 | -0.011 | 99 | 3900168 | 500.0 | 486.9 | |
| 30 Methylene Chloride | 84 | 2.439 | 2.439 | 0.000 | 90 | 701572 | 100.0 | 99.2 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.636 | 0.000 | 69 | 677986 | 100.0 | 90.1 | |
| 31 2-Methyl-2-propanol | 59 | 2.625 | 2.636 | -0.011 | 88 | 1199480 | 1000.0 | 1074.9 | |
| 33 Methyl tert-butyl ether | 73 | 2.636 | 2.636 | 0.000 | 92 | 2174946 | 100.0 | 97.2 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.709 | -0.001 | 98 | 3601116 | 1000.0 | 982.9 | |
| 35 Hexane | 57 | 2.812 | 2.812 | 0.000 | 96 | 1268338 | 100.0 | 91.9 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 3.009 | -0.010 | 86 | 1373750 | 100.0 | 93.6 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 97 | 3589485 | 200.0 | 227.8 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 90 | 759402 | 100.0 | 91.6 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 71 | 742416 | 100.0 | 93.7 | |
| 44 2-Butanone (MEK) | 43 | 3.527 | 3.538 | -0.011 | 98 | 2559733 | 500.0 | 504.0 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 90 | 387034 | 100.0 | 96.7 | |
| 48 Tetrahydrofuran | 42 | 3.693 | 3.703 | -0.010 | 92 | 676325 | 200.0 | 194.5 | |
| 50 Chloroform | 83 | 3.745 | 3.745 | 0.000 | 83 | 1197076 | 100.0 | 92.7 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 1534726 | 100.0 | 98.3 | |
| 51 1,1,1-Trichloroethane | 97 | 3.828 | 3.828 | 0.000 | 89 | 992165 | 100.0 | 97.6 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 81 | 857016 | 100.0 | 103.7 | |
| 54 1,1-Dichloropropene | 75 | 3.952 | 3.952 | 0.000 | 89 | 923067 | 100.0 | 97.0 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 98 | 2704665 | 100.0 | 93.7 | |
| 56 Isobutyl alcohol | 43 | 4.170 | 4.180 | -0.010 | 93 | 1419192 | 2500.0 | 3028.1 | |
| 57 1,2-Dichloroethane | 62 | 4.180 | 4.180 | 0.000 | 90 | 1119699 | 100.0 | 97.3 | |
| 59 n-Heptane | 43 | 4.273 | 4.263 | 0.010 | 97 | 1412052 | 100.0 | 89.0 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 90 | 706880 | 100.0 | 96.5 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 96 | 1202690 | 100.0 | 94.6 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 88 | 768745 | 100.0 | 94.9 | |
| 65 Dibromomethane | 93 | 4.905 | 4.906 | -0.001 | 92 | 460837 | 100.0 | 95.5 | |
| 66 1,4-Dioxane | 88 | 4.926 | 4.937 | -0.011 | 94 | 192124 | 2000.0 | 2165.1 | |
| 67 Dichlorobromomethane | 83 | 5.030 | 5.030 | 0.000 | 91 | 901899 | 100.0 | 109.3 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 92 | 521249 | 100.0 | 101.9 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 86 | 1115743 | 100.0 | 99.9 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 99 | 5692852 | 500.0 | 519.9 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 97 | 1692944 | 100.0 | 97.4 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 94 | 1002321 | 100.0 | 114.6 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 93 | 1003725 | 100.0 | 108.6 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 89 | 530997 | 100.0 | 100.0 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.963 | -0.001 | 87 | 689840 | 100.0 | 96.2 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 97 | 1112006 | 100.0 | 98.1 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 99 | 4175243 | 500.0 | 539.6 | |
| 82 Chlorodibromomethane | 129 | 6.221 | 6.222 | -0.001 | 88 | 642871 | 100.0 | 118.9 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 98 | 677052 | 100.0 | 104.3 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 93 | 1892111 | 100.0 | 98.5 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 40 | 645270 | 100.0 | 114.4 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 3294118 | 100.0 | 98.7 | |
| 90 m-Xylene & p-Xylene | 106 | 6.823 | 6.823 | 0.000 | 0 | 1281317 | 100.0 | 98.0 | |
| 91 o-Xylene | 106 | 7.133 | 7.134 | -0.001 | 98 | 1244714 | 100.0 | 98.3 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 95 | 2205286 | 100.0 | 100.0 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 94 | 371065 | 100.0 | 125.7 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 3353619 | 100.0 | 93.3 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 97 | 801058 | 100.0 | 93.2 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 80 | 904798 | 100.0 | 97.5 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 98 | 3979940 | 100.0 | 91.7 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 82 | 281260 | 100.0 | 95.0 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 79 | 360650 | 100.0 | 121.2 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 773118 | 100.0 | 91.7 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 94 | 2806392 | 100.0 | 93.0 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 2754745 | 100.0 | 95.2 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 94 | 616620 | 100.0 | 92.6 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.190 | 8.191 | -0.001 | 98 | 2949822 | 100.0 | 94.9 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 95 | 3686484 | 100.0 | 94.0 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 96 | 1588003 | 100.0 | 92.1 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.450 | 0.000 | 97 | 3180361 | 100.0 | 95.7 | |
| 113 1,4-Dichlorobenzene | 146 | 8.512 | 8.512 | 0.000 | 94 | 1653314 | 100.0 | 94.5 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 98 | 2925600 | 100.0 | 94.9 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 94 | 1554845 | 100.0 | 94.7 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 79 | 154663 | 100.0 | 118.1 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 987310 | 100.0 | 95.3 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.232 | 0.000 | 93 | 441605 | 100.0 | 91.3 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 97 | 2791786 | 100.0 | 99.9 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.532 | 10.533 | -0.001 | 92 | 905428 | 100.0 | 94.6 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 486.2 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 196.3 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 214.6 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 183.8 | |

Reagents:

8260 CORP mix_00015

Amount Added: 50.00

Units: uL

GAS CORP mix_00034

Amount Added: 50.00

Units: uL

T_8260_IS_00079

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2727.D

Injection Date: 27-Jun-2014 16:39:30

Instrument ID: HP5975T

Operator ID: LH

Lims ID: IC 6

Worklist Smp#: 14

Client ID:

Purge Vol: 5.000 mL

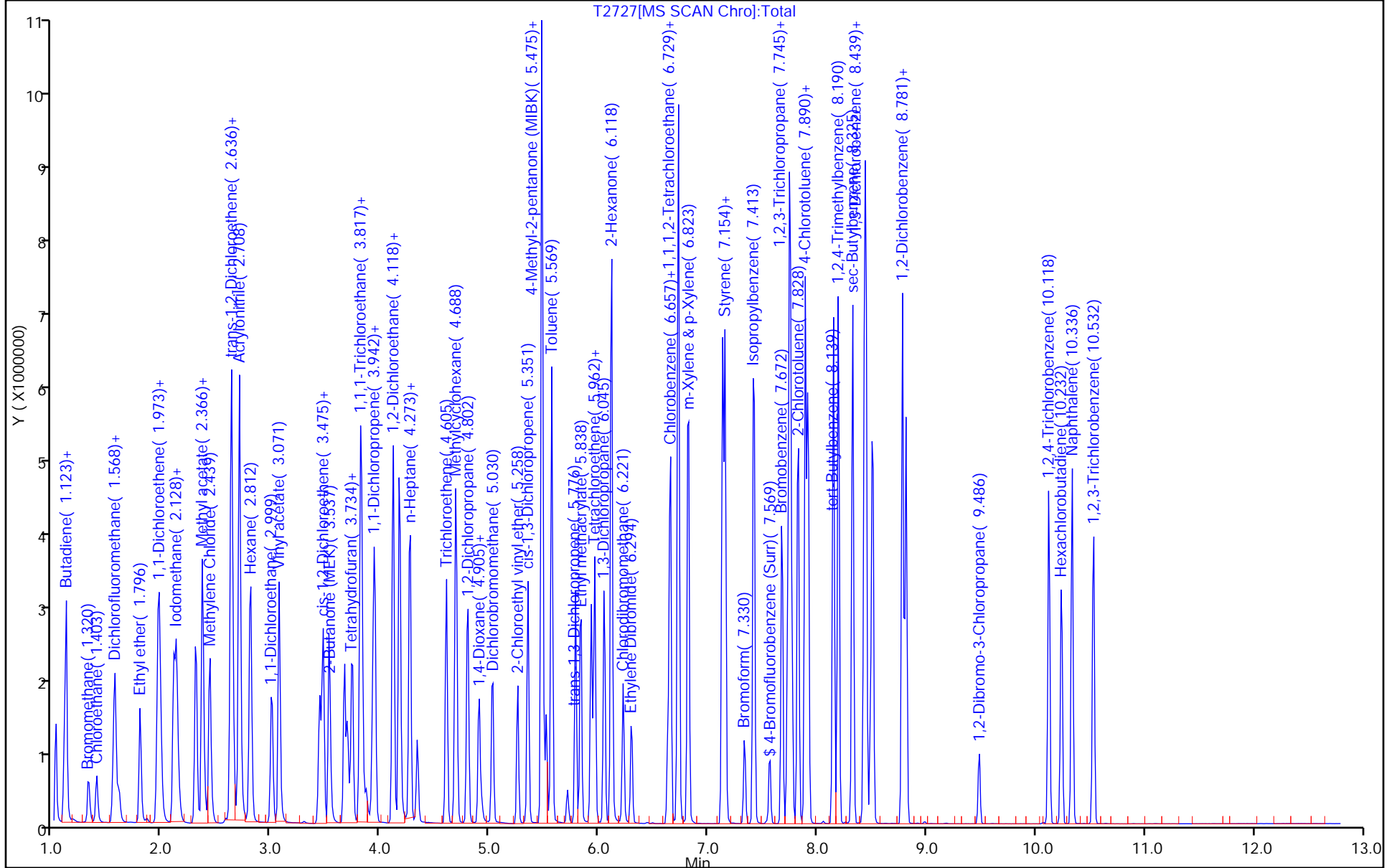
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-191587/2 Calibration Date: 07/08/2014 09:59
 Instrument ID: HP5975T Calib Start Date: 06/27/2014 14:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/27/2014 16:39
 Lab File ID: T3038.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|---------------------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Dichlorodifluoromethane | Ave | 0.2835 | 0.2872 | 0.1000 | 25.3 | 25.0 | 1.3 | 20.0 |
| Chloromethane | Ave | 0.3892 | 0.4618 | 0.1000 | 29.7 | 25.0 | 18.7 | 20.0 |
| Vinyl chloride | Ave | 0.3343 | 0.3552 | 0.1000 | 26.6 | 25.0 | 6.3 | 20.0 |
| Butadiene | Ave | 0.3376 | 0.3681 | | 27.3 | 25.0 | 9.1 | 20.0 |
| Bromomethane | Ave | 0.1303 | 0.1626 | 0.1000 | 31.2 | 25.0 | 24.7* | 20.0 |
| Chloroethane | Ave | 0.1713 | 0.2189 | 0.1000 | 31.9 | 25.0 | 27.8* | 20.0 |
| Trichlorofluoromethane | Ave | 0.3632 | 0.4143 | 0.1000 | 28.5 | 25.0 | 14.1 | 20.0 |
| Dichlorofluoromethane | Ave | 0.3531 | 0.4182 | | 29.6 | 25.0 | 18.4 | 20.0 |
| Ethyl ether | Ave | 0.2840 | 0.2881 | | 25.4 | 25.0 | 1.5 | 20.0 |
| 1,1,2-Trichloro-1,2,2-trifluoroethane | Ave | 0.2531 | 0.2397 | 0.1000 | 23.7 | 25.0 | -5.3 | 20.0 |
| 1,1-Dichloroethene | Ave | 0.2298 | 0.2309 | 0.1000 | 25.1 | 25.0 | 0.5 | 20.0 |
| Acrolein | Ave | 0.0486 | 0.0513 | | 132 | 125 | 5.5 | 20.0 |
| Iodomethane | Ave | 0.4335 | 0.4536 | | 26.2 | 25.0 | 4.6 | 20.0 |
| Acetone | Ave | 0.1329 | 0.1517 | 0.1000 | 143 | 125 | 14.1 | 20.0 |
| Carbon disulfide | Ave | 0.8903 | 0.9023 | 0.1000 | 25.3 | 25.0 | 1.4 | 20.0 |
| Allyl chloride | Ave | 0.5564 | 0.6373 | | 28.6 | 25.0 | 14.5 | 20.0 |
| Methyl acetate | Ave | 0.3082 | 0.3580 | 0.1000 | 145 | 125 | 16.2 | 20.0 |
| Methylene Chloride | Linl | | 0.3119 | 0.1000 | 27.8 | 25.0 | 11.2 | 20.0 |
| trans-1,2-Dichloroethene | Ave | 0.2895 | 0.2933 | 0.1000 | 25.3 | 25.0 | 1.3 | 20.0 |
| Methyl tert-butyl ether | Ave | 0.8612 | 0.9457 | 0.1000 | 27.5 | 25.0 | 9.8 | 20.0 |
| 2-Methyl-2-propanol | Ave | 0.0429 | 0.0450 | | 262 | 250 | 4.9 | 20.0 |
| Acrylonitrile | Ave | 0.1410 | 0.1566 | | 278 | 250 | 11.1 | 20.0 |
| Hexane | Ave | 0.5308 | 0.5208 | | 24.5 | 25.0 | -1.9 | 20.0 |
| 1,1-Dichloroethane | Ave | 0.5648 | 0.6039 | 0.2000 | 26.7 | 25.0 | 6.9 | 20.0 |
| Vinyl acetate | Ave | 0.6063 | 0.6618 | | 54.6 | 50.0 | 9.1 | 20.0 |
| 2,2-Dichloropropane | Ave | 0.3190 | 0.3379 | | 26.5 | 25.0 | 5.9 | 20.0 |
| cis-1,2-Dichloroethene | Ave | 0.3049 | 0.3161 | 0.1000 | 25.9 | 25.0 | 3.7 | 20.0 |
| 2-Butanone (MEK) | Ave | 0.1954 | 0.2212 | 0.1000 | 141 | 125 | 13.2 | 20.0 |
| Chlorobromomethane | Ave | 0.1541 | 0.1553 | | 25.2 | 25.0 | 0.8 | 20.0 |
| Tetrahydrofuran | Ave | 0.1338 | 0.1521 | | 56.8 | 50.0 | 13.7 | 20.0 |
| Chloroform | Ave | 0.4971 | 0.5081 | 0.2000 | 25.6 | 25.0 | 2.2 | 20.0 |
| 1,1,1-Trichloroethane | Ave | 0.3910 | 0.4020 | 0.1000 | 25.7 | 25.0 | 2.8 | 20.0 |
| Cyclohexane | Ave | 0.6006 | 0.6308 | 0.1000 | 26.3 | 25.0 | 5.0 | 20.0 |
| Carbon tetrachloride | Ave | 0.3181 | 0.2970 | 0.1000 | 23.3 | 25.0 | -6.6 | 20.0 |
| 1,1-Dichloropropene | Ave | 0.3662 | 0.3838 | | 26.2 | 25.0 | 4.8 | 20.0 |
| Benzene | Ave | 1.111 | 1.143 | 0.5000 | 25.7 | 25.0 | 2.9 | 20.0 |
| 1,2-Dichloroethane | Ave | 0.4427 | 0.4719 | 0.1000 | 26.6 | 25.0 | 6.6 | 20.0 |
| Isobutyl alcohol | Ave | 0.0180 | 0.0170 | | 588 | 625 | -5.8 | 20.0 |
| n-Heptane | Ave | 0.6105 | 0.6322 | | 25.9 | 25.0 | 3.5 | 20.0 |
| Trichloroethene | Ave | 0.2820 | 0.2907 | 0.2000 | 25.8 | 25.0 | 3.1 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-191587/2 Calibration Date: 07/08/2014 09:59
 Instrument ID: HP5975T Calib Start Date: 06/27/2014 14:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/27/2014 16:39
 Lab File ID: T3038.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|-----------------------------|------------|---------|--------|---------|-------------|--------------|-------|--------|
| Methylcyclohexane | Ave | 0.4892 | 0.4701 | 0.1000 | 24.0 | 25.0 | -3.9 | 20.0 |
| 1,2-Dichloropropane | Ave | 0.3118 | 0.3284 | 0.1000 | 26.3 | 25.0 | 5.3 | 20.0 |
| Dibromomethane | Ave | 0.1857 | 0.1895 | 0.1000 | 25.5 | 25.0 | 2.0 | 20.0 |
| 1,4-Dioxane | Ave | 0.0047 | 0.0049 | | 514 | 500 | 2.8 | 20.0 |
| Bromodichloromethane | Ave | 0.3176 | 0.3307 | 0.2000 | 26.0 | 25.0 | 4.1 | 20.0 |
| 2-Chloroethyl vinyl ether | Ave | 0.1968 | 0.2230 | | 28.3 | 25.0 | 13.3 | 20.0 |
| cis-1,3-Dichloropropene | Ave | 0.4296 | 0.4341 | 0.2000 | 25.3 | 25.0 | 1.0 | 20.0 |
| 4-Methyl-2-pentanone (MIBK) | Ave | 0.5827 | 0.6323 | 0.1000 | 136 | 125 | 8.5 | 20.0 |
| Toluene | Ave | 0.9248 | 0.8963 | 0.4000 | 24.2 | 25.0 | -3.1 | 20.0 |
| trans-1,3-Dichloropropene | Ave | 0.4652 | 0.4612 | 0.1000 | 24.8 | 25.0 | -0.9 | 20.0 |
| Ethyl methacrylate | Ave | 0.4920 | 0.4804 | | 24.4 | 25.0 | -2.4 | 20.0 |
| 1,1,2-Trichloroethane | Ave | 0.2824 | 0.2814 | 0.1000 | 24.9 | 25.0 | -0.4 | 20.0 |
| Tetrachloroethene | Ave | 0.3817 | 0.3564 | 0.2000 | 23.3 | 25.0 | -6.6 | 20.0 |
| 1,3-Dichloropropane | Ave | 0.6033 | 0.5926 | | 24.6 | 25.0 | -1.8 | 20.0 |
| 2-Hexanone | Ave | 0.4118 | 0.4629 | 0.1000 | 141 | 125 | 12.4 | 20.0 |
| Dibromochloromethane | Ave | 0.2877 | 0.2740 | 0.1000 | 23.8 | 25.0 | -4.8 | 20.0 |
| 1,2-Dibromoethane | Ave | 0.3455 | 0.3294 | | 23.8 | 25.0 | -4.7 | 20.0 |
| Chlorobenzene | Ave | 1.022 | 1.004 | 0.5000 | 24.6 | 25.0 | -1.8 | 20.0 |
| 1,1,1,2-Tetrachloroethane | Ave | 0.3001 | 0.2773 | | 23.1 | 25.0 | -7.6 | 20.0 |
| Ethylbenzene | Ave | 1.775 | 1.776 | 0.1000 | 25.0 | 25.0 | 0.0 | 20.0 |
| m,p-Xylene | Ave | 0.6957 | 0.6755 | 0.1000 | 24.3 | 25.0 | -2.9 | 20.0 |
| o-Xylene | Ave | 0.6738 | 0.6572 | 0.3000 | 24.4 | 25.0 | -2.5 | 20.0 |
| Styrene | Ave | 1.173 | 1.161 | 0.3000 | 24.7 | 25.0 | -1.1 | 20.0 |
| Bromoform | Ave | 0.1571 | 0.1405 | 0.1000 | 22.4 | 25.0 | -10.6 | 20.0 |
| Isopropylbenzene | Ave | 3.444 | 3.477 | 0.1000 | 25.2 | 25.0 | 1.0 | 20.0 |
| Bromobenzene | Ave | 0.8233 | 0.8221 | | 25.0 | 25.0 | -0.1 | 20.0 |
| 1,1,2,2-Tetrachloroethane | Ave | 0.8891 | 0.8903 | 0.3000 | 25.0 | 25.0 | 0.1 | 20.0 |
| N-Propylbenzene | Ave | 4.160 | 4.258 | | 25.6 | 25.0 | 2.4 | 20.0 |
| 1,2,3-Trichloropropane | Ave | 0.2838 | 0.2702 | | 23.8 | 25.0 | -4.8 | 20.0 |
| trans-1,4-Dichloro-2-butene | Ave | 0.2851 | 0.3197 | | 28.0 | 25.0 | 12.1 | 20.0 |
| 2-Chlorotoluene | Ave | 0.8082 | 0.7869 | | 24.3 | 25.0 | -2.6 | 20.0 |
| 1,3,5-Trimethylbenzene | Ave | 2.893 | 2.881 | | 24.9 | 25.0 | -0.4 | 20.0 |
| 4-Chlorotoluene | Ave | 2.774 | 2.864 | | 25.8 | 25.0 | 3.3 | 20.0 |
| tert-Butylbenzene | Ave | 0.6380 | 0.6348 | | 24.9 | 25.0 | -0.5 | 20.0 |
| 1,2,4-Trimethylbenzene | Ave | 2.979 | 3.070 | | 25.8 | 25.0 | 3.0 | 20.0 |
| sec-Butylbenzene | Ave | 3.757 | 3.809 | | 25.3 | 25.0 | 1.4 | 20.0 |
| 1,3-Dichlorobenzene | Ave | 1.653 | 1.654 | 0.6000 | 25.0 | 25.0 | 0.0 | 20.0 |
| 4-Isopropyltoluene | Ave | 3.183 | 3.358 | | 26.4 | 25.0 | 5.5 | 20.0 |
| 1,4-Dichlorobenzene | Ave | 1.677 | 1.669 | 0.5000 | 24.9 | 25.0 | -0.5 | 20.0 |
| n-Butylbenzene | Ave | 2.956 | 3.144 | | 26.6 | 25.0 | 6.4 | 20.0 |
| 1,2-Dichlorobenzene | Ave | 1.573 | 1.610 | 0.4000 | 25.6 | 25.0 | 2.4 | 20.0 |

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-191587/2 Calibration Date: 07/08/2014 09:59
 Instrument ID: HP5975T Calib Start Date: 06/27/2014 14:16
 GC Column: ZB-624 (60) ID: 0.25 (mm) Calib End Date: 06/27/2014 16:39
 Lab File ID: T3038.D Conc. Units: ug/L Heated Purge: (Y/N) N

| ANALYTE | CURVE TYPE | AVE RRF | RRF | MIN RRF | CALC AMOUNT | SPIKE AMOUNT | %D | MAX %D |
|------------------------------|------------|---------|--------|---------|-------------|--------------|------|--------|
| 1,2-Dibromo-3-Chloropropane | Ave | 0.1255 | 0.1223 | 0.0500 | 24.4 | 25.0 | -2.5 | 20.0 |
| 1,2,4-Trichlorobenzene | Ave | 0.9927 | 1.015 | 0.2000 | 25.6 | 25.0 | 2.3 | 20.0 |
| Hexachlorobutadiene | Ave | 0.4634 | 0.4545 | | 24.5 | 25.0 | -1.9 | 20.0 |
| Naphthalene | Ave | 2.679 | 2.689 | | 25.1 | 25.0 | 0.4 | 20.0 |
| 1,2,3-Trichlorobenzene | Ave | 0.9171 | 0.9204 | | 25.1 | 25.0 | 0.4 | 20.0 |
| Dibromofluoromethane (Surr) | Ave | 0.2530 | 0.2655 | | 26.2 | 25.0 | 5.0 | 20.0 |
| 1,2-Dichloroethane-d4 (Surr) | Ave | 0.3184 | 0.3423 | | 26.9 | 25.0 | 7.5 | 20.0 |
| Toluene-d8 (Surr) | Ave | 1.262 | 1.227 | | 24.3 | 25.0 | -2.8 | 20.0 |
| 4-Bromofluorobenzene (Surr) | Ave | 0.3719 | 0.3602 | | 24.2 | 25.0 | -3.1 | 20.0 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3038.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 08-Jul-2014 09:59:30 ALS Bottle#: 31 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 480-0033584-002
 Operator ID: LH/CN Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 10:15:51 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: manc

Date: 08-Jul-2014 10:15:51

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|-----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 97 | 477087 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 88 | 382827 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 94 | 195380 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 55 | 126664 | 25.0 | 26.2 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 163299 | 25.0 | 26.9 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 92 | 469675 | 25.0 | 24.3 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 90 | 137890 | 25.0 | 24.2 | |
| 11 Dichlorodifluoromethane | 85 | 0.905 | 0.905 | 0.000 | 87 | 137038 | 25.0 | 25.3 | |
| 13 Chloromethane | 50 | 1.019 | 1.019 | 0.000 | 89 | 220318 | 25.0 | 29.7 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 84 | 169451 | 25.0 | 26.6 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 96 | 175634 | 25.0 | 27.3 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 95 | 77561 | 25.0 | 31.2 | |
| 16 Chloroethane | 64 | 1.382 | 1.382 | 0.000 | 96 | 104409 | 25.0 | 31.9 | |
| 17 Trichlorofluoromethane | 101 | 1.537 | 1.537 | 0.000 | 82 | 197677 | 25.0 | 28.5 | |
| 18 Dichlorofluoromethane | 67 | 1.558 | 1.558 | 0.000 | 81 | 199504 | 25.0 | 29.6 | |
| 19 Ethyl ether | 59 | 1.796 | 1.796 | 0.000 | 94 | 137460 | 25.0 | 25.4 | |
| 21 Acrolein | 56 | 1.962 | 1.962 | 0.000 | 67 | 122366 | 125.0 | 131.9 | |
| 22 1,1-Dichloroethene | 96 | 1.962 | 1.962 | 0.000 | 83 | 110172 | 25.0 | 25.1 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.962 | 1.962 | 0.000 | 86 | 114368 | 25.0 | 23.7 | |
| 24 Iodomethane | 142 | 2.097 | 2.097 | 0.000 | 99 | 216420 | 25.0 | 26.2 | |
| 25 Carbon disulfide | 76 | 2.118 | 2.118 | 0.000 | 97 | 430485 | 25.0 | 25.3 | |
| 23 Acetone | 43 | 2.118 | 2.118 | 0.000 | 75 | 361776 | 125.0 | 142.7 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 85 | 304037 | 25.0 | 28.6 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 100 | 854063 | 125.0 | 145.2 | |
| 30 Methylene Chloride | 84 | 2.429 | 2.429 | 0.000 | 87 | 148797 | 25.0 | 27.8 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.625 | 2.625 | 0.000 | 89 | 139937 | 25.0 | 25.3 | |
| 33 Methyl tert-butyl ether | 73 | 2.636 | 2.636 | 0.000 | 91 | 451177 | 25.0 | 27.5 | |
| 31 2-Methyl-2-propanol | 59 | 2.657 | 2.657 | 0.000 | 78 | 214834 | 250.0 | 262.2 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.708 | 0.000 | 97 | 747108 | 250.0 | 277.7 | |
| 35 Hexane | 57 | 2.802 | 2.802 | 0.000 | 96 | 248455 | 25.0 | 24.5 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 36 1,1-Dichloroethane | 63 | 2.999 | 2.999 | 0.000 | 86 | 288089 | 25.0 | 26.7 | |
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 97 | 631429 | 50.0 | 54.6 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 87 | 161185 | 25.0 | 26.5 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 70 | 150782 | 25.0 | 25.9 | |
| 44 2-Butanone (MEK) | 43 | 3.537 | 3.537 | 0.000 | 97 | 527658 | 125.0 | 141.5 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 86 | 74103 | 25.0 | 25.2 | |
| 48 Tetrahydrofuran | 42 | 3.703 | 3.703 | 0.000 | 94 | 145123 | 50.0 | 56.8 | |
| 50 Chloroform | 83 | 3.734 | 3.734 | 0.000 | 82 | 242410 | 25.0 | 25.6 | |
| 51 1,1,1-Trichloroethane | 97 | 3.817 | 3.817 | 0.000 | 90 | 191790 | 25.0 | 25.7 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 300951 | 25.0 | 26.3 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 77 | 141705 | 25.0 | 23.3 | |
| 54 1,1-Dichloropropene | 75 | 3.942 | 3.942 | 0.000 | 85 | 183126 | 25.0 | 26.2 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 94 | 545420 | 25.0 | 25.7 | |
| 57 1,2-Dichloroethane | 62 | 4.170 | 4.170 | 0.000 | 89 | 225112 | 25.0 | 26.6 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 91 | 202507 | 625.0 | 588.4 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 97 | 301614 | 25.0 | 25.9 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 90 | 138666 | 25.0 | 25.8 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 94 | 224296 | 25.0 | 24.0 | |
| 63 1,2-Dichloropropane | 63 | 4.802 | 4.802 | 0.000 | 87 | 156686 | 25.0 | 26.3 | |
| 65 Dibromomethane | 93 | 4.895 | 4.895 | 0.000 | 83 | 90385 | 25.0 | 25.5 | |
| 66 1,4-Dioxane | 88 | 4.936 | 4.936 | 0.000 | 94 | 37151 | 500.0 | 513.8 | |
| 67 Dichlorobromomethane | 83 | 5.019 | 5.019 | 0.000 | 89 | 157781 | 25.0 | 26.0 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 91 | 106374 | 25.0 | 28.3 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 84 | 207084 | 25.0 | 25.3 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 98 | 1210352 | 125.0 | 135.6 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 96 | 343130 | 25.0 | 24.2 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 92 | 176546 | 25.0 | 24.8 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 91 | 183911 | 25.0 | 24.4 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 89 | 107708 | 25.0 | 24.9 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.962 | 0.000 | 87 | 136433 | 25.0 | 23.3 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 96 | 226880 | 25.0 | 24.6 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 98 | 886093 | 125.0 | 140.5 | |
| 82 Chlorodibromomethane | 129 | 6.221 | 6.221 | 0.000 | 87 | 104878 | 25.0 | 23.8 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 97 | 126086 | 25.0 | 23.8 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 92 | 384310 | 25.0 | 24.6 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 38 | 106152 | 25.0 | 23.1 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 680070 | 25.0 | 25.0 | |
| 90 m-Xylene & p-Xylene | 106 | 6.822 | 6.822 | 0.000 | 0 | 258603 | 25.0 | 24.3 | |
| 91 o-Xylene | 106 | 7.133 | 7.133 | 0.000 | 98 | 251589 | 25.0 | 24.4 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 94 | 444299 | 25.0 | 24.7 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 92 | 53771 | 25.0 | 22.4 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 679380 | 25.0 | 25.2 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 95 | 160618 | 25.0 | 25.0 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 87 | 173937 | 25.0 | 25.0 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 99 | 831963 | 25.0 | 25.6 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 83 | 52791 | 25.0 | 23.8 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 74 | 62467 | 25.0 | 28.0 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 153749 | 25.0 | 24.3 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 93 | 562925 | 25.0 | 24.9 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 559604 | 25.0 | 25.8 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 94 | 124017 | 25.0 | 24.9 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.190 | 8.190 | 0.000 | 98 | 599727 | 25.0 | 25.8 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 95 | 744138 | 25.0 | 25.3 | |
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 95 | 323097 | 25.0 | 25.0 | |
| 111 4-Isopropyltoluene | 119 | 8.449 | 8.449 | 0.000 | 97 | 656129 | 25.0 | 26.4 | |
| 113 1,4-Dichlorobenzene | 146 | 8.501 | 8.501 | 0.000 | 91 | 326103 | 25.0 | 24.9 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 98 | 614340 | 25.0 | 26.6 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 94 | 314647 | 25.0 | 25.6 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 69 | 23898 | 25.0 | 24.4 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 91 | 198342 | 25.0 | 25.6 | |
| 120 Hexachlorobutadiene | 225 | 10.242 | 10.242 | 0.000 | 96 | 88796 | 25.0 | 24.5 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 98 | 525315 | 25.0 | 25.1 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.532 | 10.532 | 0.000 | 91 | 179831 | 25.0 | 25.1 | |
| S 123 1,3-Dichloropropene, Total | 1 | | | | 0 | | | 50.0 | |
| S 124 1,2-Dichloroethene, Total | 1 | | | | 0 | | | 51.2 | |
| S 125 Total BTEX | 1 | | | | 0 | | | 123.6 | |
| S 126 Xylenes, Total | 1 | | | | 0 | | | 48.7 | |

Reagents:

| | | | |
|---------------------|---------------------|-----------|-------------|
| GAS CORP mix_00035 | Amount Added: 12.50 | Units: uL | |
| 8260 CORP mix_00015 | Amount Added: 12.50 | Units: uL | |
| T_8260_IS_00077 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3038.D

Injection Date: 08-Jul-2014 09:59:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

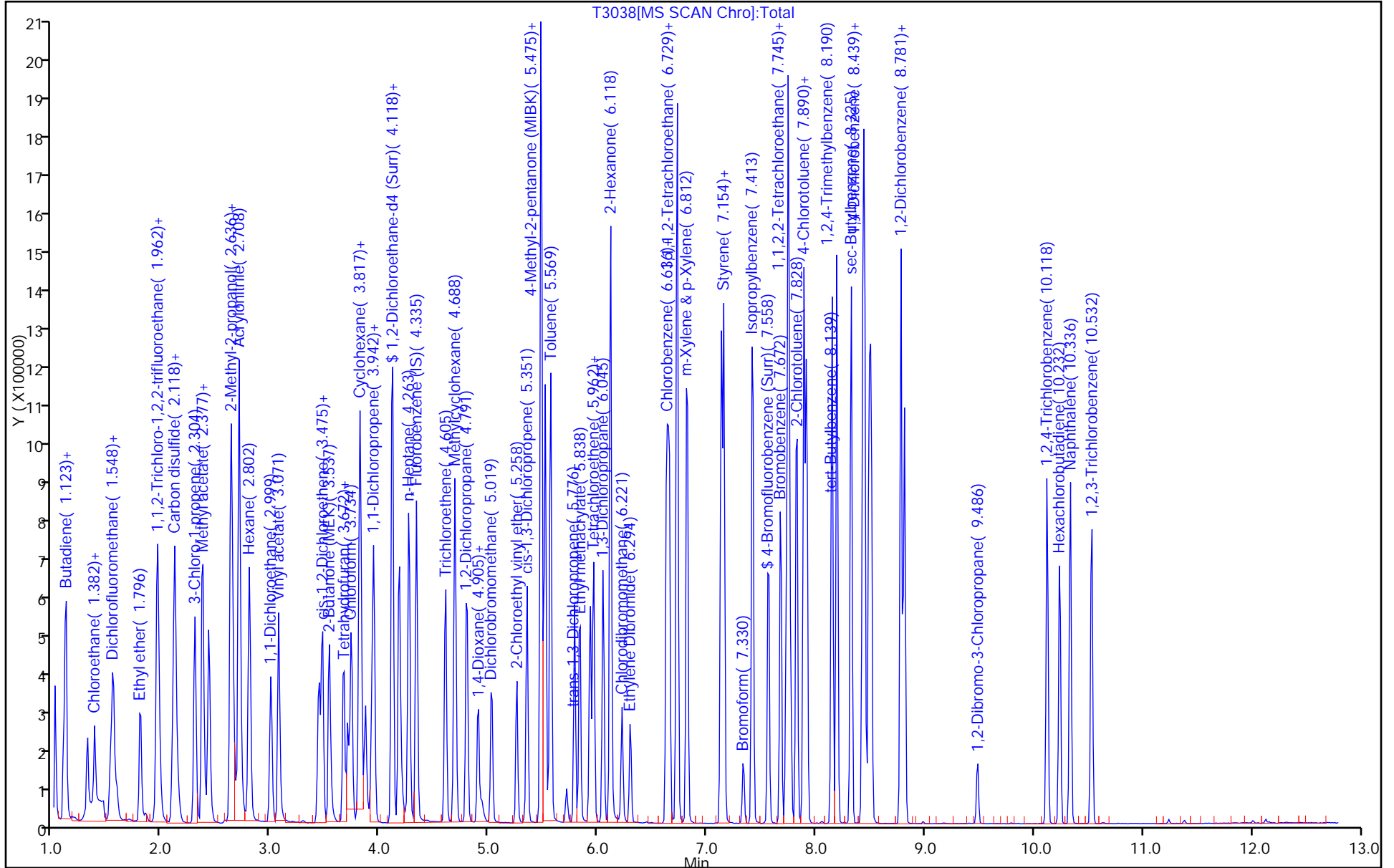
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2719.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 27-Jun-2014 13:16:30 ALS Bottle#: 30 Worklist Smp#: 6
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0033352-006
 Operator ID: LH Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 27-Jun-2014 13:36:01 Calib Date: 06-Jun-2014 22:48:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140606-32722.b\T1934.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK030

First Level Reviewer: Hilll Date: 27-Jun-2014 13:36:01

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|

| | | | | | | | | | |
|----------|----|-------|-------|-------|----|--------|----|----|---|
| \$ 5 BFB | 95 | 4.840 | 4.840 | 0.000 | 86 | 184477 | NR | NR | 7 |
|----------|----|-------|-------|-------|----|--------|----|----|---|

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard
 7 - Failed Limit of Detection

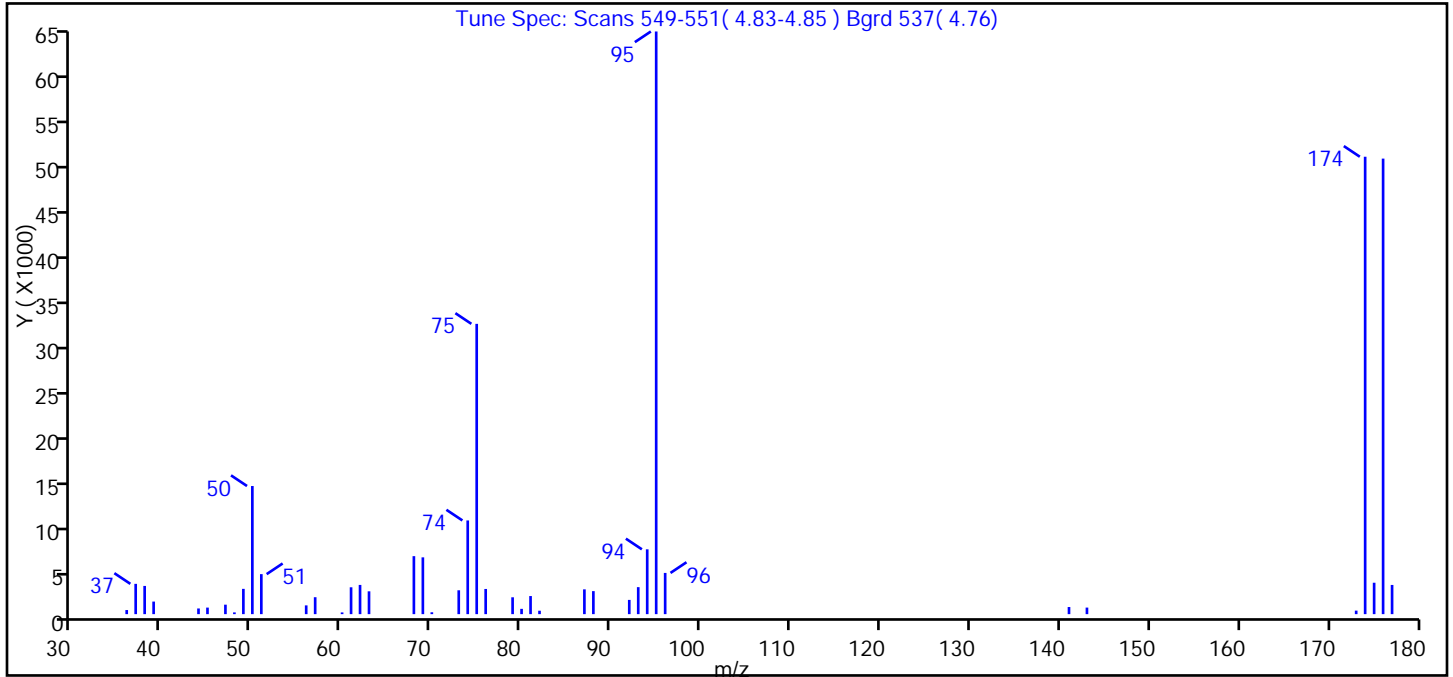
Reagents:

BFB_WRK_00034 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2719.D
 Injection Date: 27-Jun-2014 13:16:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: LH ALS Bottle#: 30 Worklist Smp#: 6
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



| m/z | Ion Abundance Criteria | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 22.00 |
| 75 | 30.00 - 60.00% of mass 95 | 49.80 |
| 96 | 5.00 - 9.00% of mass 95 | 7.10 |
| 173 | Less than 2.00% of mass 174 | 0.60 (0.80) |
| 174 | 50.00 - 120.00% of mass 95 | 78.50 |
| 175 | 5.00 - 9.00% of mass 174 | 5.40 (6.90) |
| 176 | 95.00 - 101.00% of mass 174 | 78.20 (99.60) |
| 177 | 5.00 - 9.00% of mass 176 | 5.00 (6.40) |

Data File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2719.D\T-8260.rsl\spectra.d
Injection Date: 27-Jun-2014 13:16:30
Spectrum: Tune Spec: Scans 549-551(4.83-4.85) Bgrd 537(4.76)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 42

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|-------|-------|--------|-------|
| 36.00 | 456 | 56.00 | 975 | 75.00 | 32296 | 95.00 | 64824 |
| 37.00 | 3370 | 57.00 | 1883 | 76.00 | 2801 | 96.00 | 4586 |
| 38.00 | 3139 | 60.00 | 192 | 79.00 | 1875 | 141.00 | 792 |
| 39.00 | 1399 | 61.00 | 2988 | 80.00 | 588 | 143.00 | 729 |
| 44.00 | 631 | 62.00 | 3251 | 81.00 | 2013 | 173.00 | 391 |
| 45.00 | 728 | 63.00 | 2539 | 82.00 | 380 | 174.00 | 50888 |
| 47.00 | 1054 | 68.00 | 6452 | 87.00 | 2758 | 175.00 | 3495 |
| 48.00 | 194 | 69.00 | 6318 | 88.00 | 2561 | 176.00 | 50680 |
| 49.00 | 2813 | 70.00 | 208 | 92.00 | 1585 | 177.00 | 3248 |
| 50.00 | 14254 | 73.00 | 2654 | 93.00 | 3003 | | |
| 51.00 | 4451 | 74.00 | 10424 | 94.00 | 7211 | | |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3037.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 08-Jul-2014 09:33:30 ALS Bottle#: 30 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: BFB
 Misc. Info.: 480-0033584-001
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 09:43:23 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: manc Date: 08-Jul-2014 09:43:23

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
|----------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|

| | | | | | | | | | |
|----------|----|-------|-------|-------|----|--------|----|----|---|
| \$ 5 BFB | 95 | 4.852 | 4.852 | 0.000 | 83 | 176198 | NR | NR | 7 |
|----------|----|-------|-------|-------|----|--------|----|----|---|

QC Flag Legend

Processing Flags
 NR - Missing Quant Standard
 7 - Failed Limit of Detection

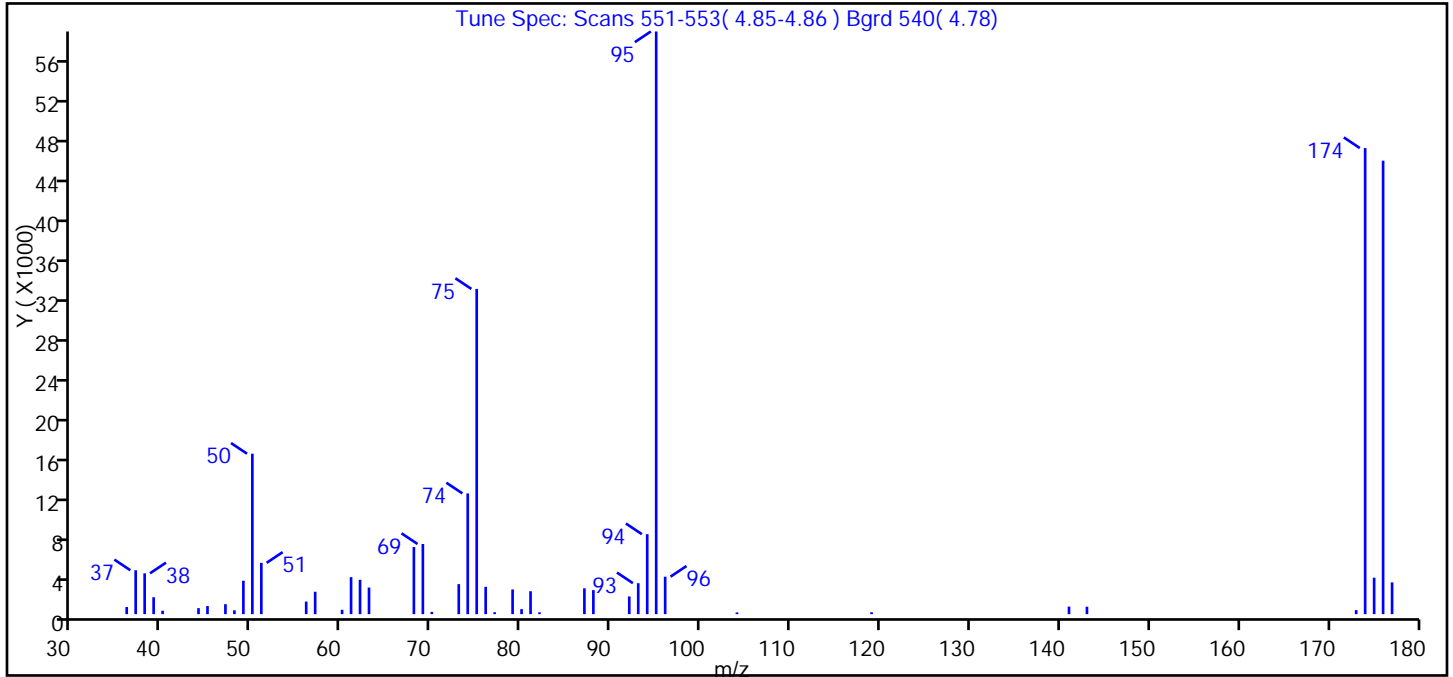
Reagents:

BFB_WRK_00034 Amount Added: 1.00 Units: uL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3037.D
 Injection Date: 08-Jul-2014 09:33:30 Instrument ID: HP5975T
 Lims ID: BFB
 Client ID:
 Operator ID: LH/CN ALS Bottle#: 30 Worklist Smp#: 1
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Method: T-8260 Limit Group: MV - 8260C ICAL
 Tune Method: BFB Method 8260

\$ 5 BFB



| m/z | Ion Abundance Criteria | % Relative Abundance |
|-----|------------------------------------|----------------------|
| 95 | Base Peak, 100% relative abundance | 100.00 |
| 50 | 15.00 - 40.00% of mass 95 | 27.50 |
| 75 | 30.00 - 60.00% of mass 95 | 55.80 |
| 96 | 5.00 - 9.00% of mass 95 | 6.40 |
| 173 | Less than 2.00% of mass 174 | 0.70 (0.90) |
| 174 | 50.00 - 120.00% of mass 95 | 80.00 |
| 175 | 5.00 - 9.00% of mass 174 | 6.30 (7.80) |
| 176 | 95.00 - 101.00% of mass 174 | 77.80 (97.30) |
| 177 | 5.00 - 9.00% of mass 176 | 5.50 (7.00) |

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3037.D\T-8260.rsl\spectra.d

Injection Date: 08-Jul-2014 09:33:30

Spectrum: Tune Spec: Scans 551-553(4.85-4.86) Bgrd 540(4.78)

Base Peak: 95.00

Minimum % Base Peak: 0

Number of Points: 46

| m/z | Y | m/z | Y | m/z | Y | m/z | Y |
|-------|-------|-------|-------|-------|-------|--------|-------|
| 36.00 | 709 | 56.00 | 1255 | 76.00 | 2722 | 96.00 | 3732 |
| 37.00 | 4372 | 57.00 | 2231 | 77.00 | 187 | 104.00 | 172 |
| 38.00 | 4066 | 60.00 | 434 | 79.00 | 2459 | 119.00 | 190 |
| 39.00 | 1686 | 61.00 | 3688 | 80.00 | 501 | 141.00 | 752 |
| 40.00 | 338 | 62.00 | 3421 | 81.00 | 2284 | 143.00 | 741 |
| 44.00 | 596 | 63.00 | 2650 | 82.00 | 180 | 173.00 | 402 |
| 45.00 | 804 | 68.00 | 6687 | 87.00 | 2573 | 174.00 | 46432 |
| 47.00 | 994 | 69.00 | 6990 | 88.00 | 2394 | 175.00 | 3631 |
| 48.00 | 380 | 70.00 | 223 | 92.00 | 1761 | 176.00 | 45176 |
| 49.00 | 3329 | 73.00 | 2990 | 93.00 | 3084 | 177.00 | 3164 |
| 50.00 | 15984 | 74.00 | 12027 | 94.00 | 7967 | | |
| 51.00 | 5114 | 75.00 | 32400 | 95.00 | 58048 | | |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-191587/7
 Matrix: Water Lab File ID: T3042.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 1.0 | U | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 1.0 | U | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 1.0 | U | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 1.0 | U | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 1.0 | U | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 1.0 | U | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 1.0 | U | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 1.0 | U | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 1.0 | U | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 1.0 | U | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 1.0 | U | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 1.0 | U | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 1.0 | U | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 1.0 | U | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 1.0 | U | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 1.0 | U | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 10 | U | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 5.0 | U | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 5.0 | U | 5.0 | 2.1 |
| 67-64-1 | Acetone | 10 | U | 10 | 3.0 |
| 71-43-2 | Benzene | 1.0 | U | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 1.0 | U | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 1.0 | U | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 1.0 | U | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 1.0 | U | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 1.0 | U | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 1.0 | U | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 1.0 | U | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 1.0 | U | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 1.0 | U | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 1.0 | U | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 1.0 | U | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 1.0 | U | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-191587/7
 Matrix: Water Lab File ID: T3042.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 11:59
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 1.0 | U | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 1.0 | U | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 2.5 | U | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 1.0 | U | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 1.0 | U | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 1.0 | U | 1.0 | 0.44 |
| 100-42-5 | Styrene | 1.0 | U | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 1.0 | U | 1.0 | 0.36 |
| 108-88-3 | Toluene | 1.0 | U | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 1.0 | U | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 1.0 | U | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 1.0 | U | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 1.0 | U | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 1.0 | U | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 2.0 | U | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 96 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 98 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 98 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3042.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 08-Jul-2014 11:59:30 ALS Bottle#: 35 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Misc. Info.: 480-0033584-007
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 10:14:53 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: manc

Date: 08-Jul-2014 12:15:14

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.336 | 4.335 | 0.001 | 97 | 447471 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 88 | 341762 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 96 | 160111 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 62 | 111482 | 25.0 | 24.6 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 147799 | 25.0 | 25.9 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 96 | 424392 | 25.0 | 24.6 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 89 | 121434 | 25.0 | 23.9 | |
| 11 Dichlorodifluoromethane | 85 | | 0.905 | | | | | ND | |
| 12 Chlorodifluoromethane | 51 | | 0.926 | | | | | ND | |
| 13 Chloromethane | 50 | | 1.019 | | | | | ND | |
| 14 Vinyl chloride | 62 | | 1.102 | | | | | ND | |
| 151 Butadiene | 54 | | 1.123 | | | | | ND | |
| 15 Bromomethane | 94 | | 1.320 | | | | | ND | |
| 16 Chloroethane | 64 | | 1.382 | | | | | ND | |
| 17 Trichlorofluoromethane | 101 | | 1.537 | | | | | ND | |
| 18 Dichlorofluoromethane | 67 | | 1.558 | | | | | ND | |
| 19 Ethyl ether | 59 | | 1.796 | | | | | ND | |
| 148 Ethanol | 45 | | 1.817 | | | | | ND | |
| 84 Propene oxide | 58 | | 1.869 | | | | | ND | |
| 21 Acrolein | 56 | | 1.962 | | | | | ND | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | | 1.962 | | | | | ND | |
| 22 1,1-Dichloroethene | 96 | | 1.962 | | | | | ND | |
| 24 Iodomethane | 142 | | 2.097 | | | | | ND | |
| 25 Carbon disulfide | 76 | | 2.118 | | | | | ND | |
| 23 Acetone | 43 | | 2.118 | | | | | ND | |
| 26 Isopropyl alcohol | 45 | | 2.294 | | | | | ND | |
| 27 3-Chloro-1-propene | 41 | | 2.304 | | | | | ND | |
| 28 Methyl acetate | 43 | | 2.377 | | | | | ND | |
| 29 Acetonitrile | 40 | | 2.377 | | | | | ND | |
| 30 Methylene Chloride | 84 | | 2.429 | | | | | ND | |
| 32 trans-1,2-Dichloroethene | 96 | | 2.625 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 33 Methyl tert-butyl ether | 73 | | 2.636 | | | | | ND | |
| 31 2-Methyl-2-propanol | 59 | | 2.657 | | | | | ND | |
| 34 Acrylonitrile | 53 | | 2.708 | | | | | ND | |
| 35 Hexane | 57 | | 2.802 | | | | | ND | |
| 36 1,1-Dichloroethane | 63 | | 2.999 | | | | | ND | |
| 37 Isopropyl ether | 45 | | 3.030 | | | | | ND | |
| 38 2-Chloro-1,3-butadiene | 53 | | 3.050 | | | | | ND | |
| 139 Halothane | 117 | | 3.061 | | | | | ND | |
| 39 Vinyl acetate | 43 | | 3.071 | | | | | ND | |
| 40 1,1-Dimethoxyethane | 75 | | 3.102 | | | | | ND | |
| 41 Tert-butyl ethyl ether | 59 | | 3.320 | | | | | ND | |
| 42 2,2-Dichloropropane | 77 | | 3.444 | | | | | ND | |
| 43 cis-1,2-Dichloroethene | 96 | | 3.475 | | | | | ND | |
| 44 2-Butanone (MEK) | 43 | | 3.537 | | | | | ND | |
| 45 Ethyl acetate | 43 | | 3.558 | | | | | ND | |
| 46 Propionitrile | 54 | | 3.620 | | | | | ND | |
| 47 Chlorobromomethane | 128 | | 3.672 | | | | | ND | |
| 48 Tetrahydrofuran | 42 | | 3.703 | | | | | ND | |
| 49 Methacrylonitrile | 41 | | 3.703 | | | | | ND | |
| 50 Chloroform | 83 | | 3.734 | | | | | ND | |
| 52 Cyclohexane | 56 | | 3.817 | | | | | ND | |
| 51 1,1,1-Trichloroethane | 97 | | 3.817 | | | | | ND | |
| 53 Carbon tetrachloride | 117 | | 3.931 | | | | | ND | |
| 54 1,1-Dichloropropene | 75 | | 3.942 | | | | | ND | |
| 55 Benzene | 78 | | 4.118 | | | | | ND | |
| 152 Isooctane | 57 | | 4.118 | | | | | ND | |
| 57 1,2-Dichloroethane | 62 | | 4.170 | | | | | ND | |
| 56 Isobutyl alcohol | 43 | | 4.180 | | | | | ND | |
| 58 Tert-amyl methyl ether | 73 | | 4.190 | | | | | ND | |
| 147 t-Amyl alcohol | 59 | | 4.211 | | | | | ND | |
| 59 n-Heptane | 43 | | 4.263 | | | | | ND | |
| 1 1,4-Difluorobenzene | 114 | | 4.429 | | | | | ND | |
| 141 2,4,4-Trimethyl-1-pentene | 55 | | 4.522 | | | | | ND | |
| 60 Trichloroethene | 95 | | 4.605 | | | | | ND | |
| 61 n-Butanol | 56 | | 4.667 | | | | | ND | |
| 62 Methylcyclohexane | 83 | | 4.688 | | | | | ND | |
| 140 2,4,4-Trimethyl-2-pentene | 97 | | 4.709 | | | | | ND | |
| 142 Ethyl acrylate | 55 | | 4.729 | | | | | ND | |
| 63 1,2-Dichloropropane | 63 | | 4.802 | | | | | ND | |
| 65 Dibromomethane | 93 | | 4.895 | | | | | ND | |
| 64 Methyl methacrylate | 41 | | 4.895 | | | | | ND | |
| 66 1,4-Dioxane | 88 | | 4.936 | | | | | ND | |
| 67 Dichlorobromomethane | 83 | | 5.019 | | | | | ND | |
| 68 2-Nitropropane | 43 | | 5.237 | | | | | ND | |
| 69 2-Chloroethyl vinyl ether | 63 | | 5.258 | | | | | ND | |
| 70 Epichlorohydrin | 57 | | 5.320 | | | | | ND | |
| 71 cis-1,3-Dichloropropene | 75 | | 5.351 | | | | | ND | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | | 5.475 | | | | | ND | |
| 73 Toluene | 92 | | 5.569 | | | | | ND | |
| 74 2-Methylthiophene | 97 | | 5.672 | | | | | ND | |
| 75 trans-1,3-Dichloropropene | 75 | | 5.786 | | | | | ND | |
| 76 3-Methylthiophene | 97 | | 5.797 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 77 Ethyl methacrylate | 69 | | 5.838 | | | | | ND | |
| 78 1,1,2-Trichloroethane | 83 | | 5.931 | | | | | ND | |
| 79 Tetrachloroethene | 166 | | 5.962 | | | | | ND | |
| 80 1,3-Dichloropropane | 76 | | 6.045 | | | | | ND | |
| 81 2-Hexanone | 43 | | 6.118 | | | | | ND | |
| 155 n-Butyl acetate | 43 | | 6.201 | | | | | ND | |
| 82 Chlorodibromomethane | 129 | | 6.221 | | | | | ND | |
| 83 Ethylene Dibromide | 107 | | 6.294 | | | | | ND | |
| 146 1-Chlorohexane | 55 | 6.626 | 6.626 | 0.000 | 8 | 4715 | | 0.1068 | |
| 85 3-Chlorobenzotrifluoride | 180 | | 6.636 | | | | | ND | |
| 86 Chlorobenzene | 112 | | 6.657 | | | | | ND | |
| 87 4-Chlorobenzotrifluoride | 180 | | 6.688 | | | | | ND | |
| 89 1,1,1,2-Tetrachloroethane | 131 | | 6.729 | | | | | ND | |
| 88 Ethylbenzene | 91 | | 6.729 | | | | | ND | |
| 90 m-Xylene & p-Xylene | 106 | | 6.822 | | | | | ND | |
| 91 o-Xylene | 106 | | 7.133 | | | | | ND | |
| 92 Styrene | 104 | | 7.154 | | | | | ND | |
| 93 Bromoform | 173 | | 7.330 | | | | | ND | |
| 94 2-Chlorobenzotrifluoride | 180 | | 7.361 | | | | | ND | |
| 95 Isopropylbenzene | 105 | | 7.413 | | | | | ND | |
| 96 Cyclohexanone | 55 | | 7.558 | | | | | ND | |
| 97 Bromobenzene | 156 | | 7.672 | | | | | ND | |
| 98 1,1,2,2-Tetrachloroethane | 83 | | 7.724 | | | | | ND | |
| 99 N-Propylbenzene | 91 | | 7.745 | | | | | ND | |
| 100 1,2,3-Trichloropropane | 110 | | 7.755 | | | | | ND | |
| 101 trans-1,4-Dichloro-2-buten | 53 | | 7.766 | | | | | ND | |
| 105 2-Chlorotoluene | 126 | | 7.828 | | | | | ND | |
| 103 3-Chlorotoluene | 126 | | 7.880 | | | | | ND | |
| 104 1,3,5-Trimethylbenzene | 105 | | 7.890 | | | | | ND | |
| 102 4-Chlorotoluene | 91 | | 7.911 | | | | | ND | |
| 106 tert-Butylbenzene | 134 | | 8.149 | | | | | ND | |
| 107 1,2,4-Trimethylbenzene | 105 | | 8.190 | | | | | ND | |
| 108 Pentachloroethane | 167 | | 8.191 | | | | | ND | |
| 109 sec-Butylbenzene | 105 | | 8.325 | | | | | ND | |
| 110 1,3-Dichlorobenzene | 146 | | 8.429 | | | | | ND | |
| 111 4-Isopropyltoluene | 119 | | 8.449 | | | | | ND | |
| 112 Dicyclopentadiene | 66 | | 8.481 | | | | | ND | |
| 113 1,4-Dichlorobenzene | 146 | | 8.501 | | | | | ND | |
| 114 1,2,3-Trimethylbenzene | 105 | | 8.533 | | | | | ND | |
| 150 Benzyl chloride | 126 | | 8.647 | | | | | ND | |
| 115 n-Butylbenzene | 91 | | 8.781 | | | | | ND | |
| 116 1,2-Dichlorobenzene | 146 | | 8.812 | | | | | ND | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | | 9.486 | | | | | ND | |
| 118 1,3,5-Trichlorobenzene | 180 | | 9.600 | | | | | ND | |
| 119 1,2,4-Trichlorobenzene | 180 | | 10.118 | | | | | ND | |
| 120 Hexachlorobutadiene | 225 | | 10.242 | | | | | ND | |
| 121 Naphthalene | 128 | | 10.336 | | | | | ND | |
| 122 1,2,3-Trichlorobenzene | 180 | | 10.532 | | | | | ND | |
| 149 2-Methylnaphthalene | 142 | | 11.237 | | | | | ND | |
| 145 Ethylene oxide TIC | 1 | | 0.000 | | | | | ND | |
| 143 Propene oxide TIC | 1 | | 0.000 | | | | | ND | |
| 144 1-Bromopropane TIC | 1 | | 0.000 | | | | | ND | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|----------------------------------|-----|-----------|---------------|---------------|---|----------|--------------|----------------|-------|
| 135 Hexachloroethane | 117 | | 0.000 | | | | | ND | |
| 137 Methyl acrylate | 1 | | 0.000 | | | | | ND | |
| 138 cis-1,4-Dichloro-2-butene | 88 | | 0.000 | | | | | ND | |
| 136 Nitrobenzene | 77 | | 0.000 | | | | | ND | |
| S 125 Total BTEX | 1 | | 30.000 | | | | | 0 | |
| S 126 Xylenes, Total | 1 | | 30.000 | | | | | 0 | |
| S 123 1,3-Dichloropropene, Total | 1 | | 30.000 | | | | | 0 | |
| S 124 1,2-Dichloroethene, Total | 1 | | 30.000 | | | | | 0 | |
| T 128 Hexachloroethane TIC | 117 | | 0.000 | | | | | 0 | |
| T 129 Aziridine TIC | 1 | | 0.000 | | | | | 0 | |
| T 127 Ethanol TIC | 1 | | 0.000 | | | | | 0 | |
| T 10 Ethylene oxide | 1 | | 0.000 | | | | | 0 | |
| T 9 bis(2-chloromethyl)ether T | 1 | | 0.000 | | | | | 0 | |
| T 130 Bromoethane TIC | 1 | | 0.000 | | | | | 0 | |
| T 131 tert-amyl alcohol TIC | 1 | | 0.000 | | | | | 0 | |
| T 132 bis(chloromethyl)ether TIC | 1 | | 0.000 | | | | | 0 | |
| T 133 Pentachloroethane TIC | 1 | | 0.000 | | | | | 0 | |
| T 134 1-Bromopropane | 1 | | 0.000 | | | | | 0 | |

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Reagents:

| | | | |
|-------------------|--------------------|-----------|-------------|
| T_8260_IS_00077 | Amount Added: 1.00 | Units: uL | Run Reagent |
| T_8260_Surr_00078 | Amount Added: 1.00 | Units: uL | Run Reagent |

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3042.D

Injection Date: 08-Jul-2014 11:59:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

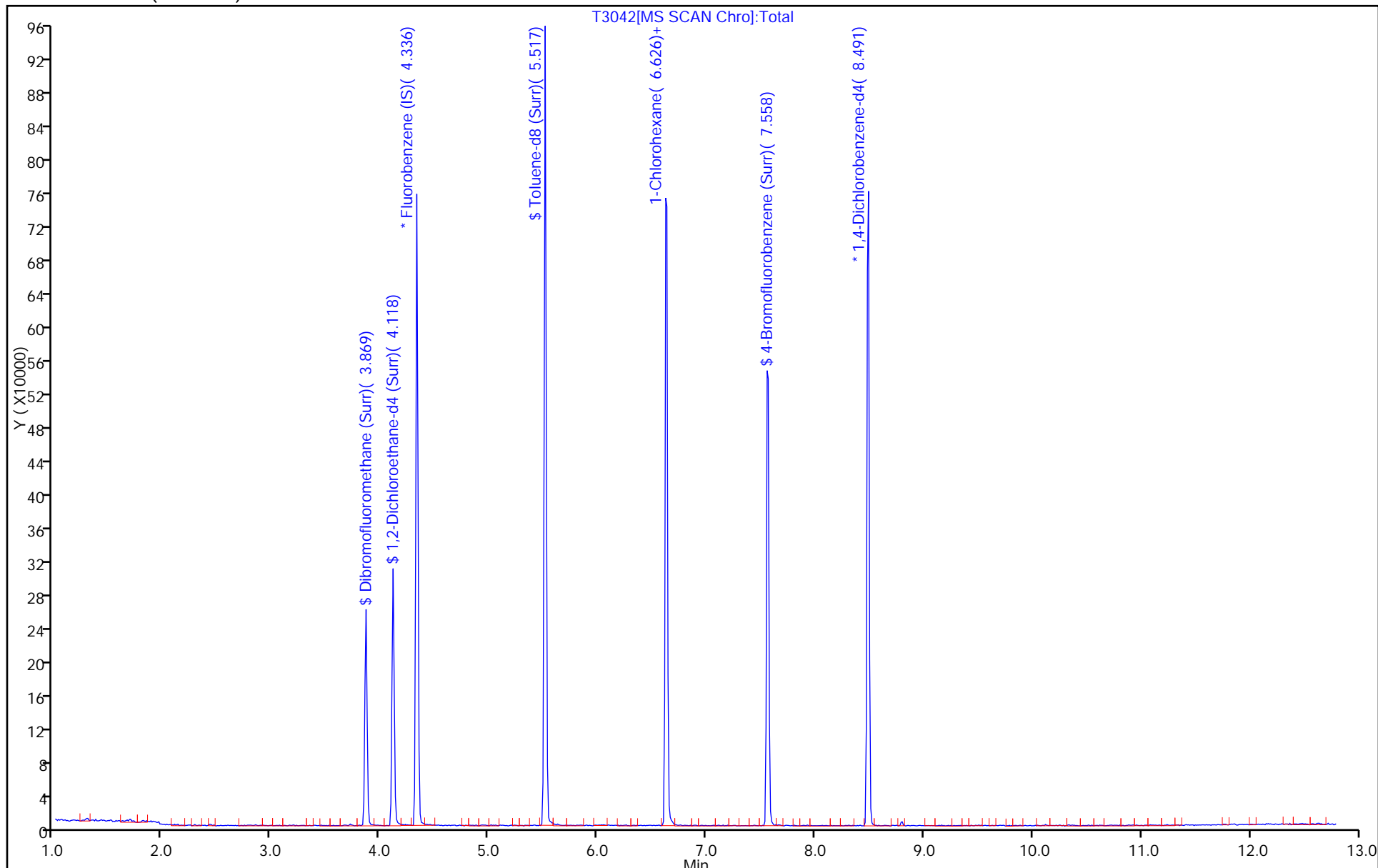
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-191587/4
 Matrix: Water Lab File ID: T3040.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 11:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------------------|--------|---|-----|------|
| 71-55-6 | 1,1,1-Trichloroethane | 24.5 | | 1.0 | 0.82 |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 24.8 | | 1.0 | 0.21 |
| 76-13-1 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 23.5 | | 1.0 | 0.31 |
| 79-00-5 | 1,1,2-Trichloroethane | 24.7 | | 1.0 | 0.23 |
| 75-34-3 | 1,1-Dichloroethane | 26.2 | | 1.0 | 0.38 |
| 75-35-4 | 1,1-Dichloroethene | 24.0 | | 1.0 | 0.29 |
| 120-82-1 | 1,2,4-Trichlorobenzene | 24.9 | | 1.0 | 0.41 |
| 95-63-6 | 1,2,4-Trimethylbenzene | 24.5 | | 1.0 | 0.75 |
| 96-12-8 | 1,2-Dibromo-3-Chloropropane | 24.4 | | 1.0 | 0.39 |
| 106-93-4 | 1,2-Dibromoethane | 24.4 | | 1.0 | 0.73 |
| 95-50-1 | 1,2-Dichlorobenzene | 24.4 | | 1.0 | 0.79 |
| 107-06-2 | 1,2-Dichloroethane | 26.1 | | 1.0 | 0.21 |
| 78-87-5 | 1,2-Dichloropropane | 25.1 | | 1.0 | 0.72 |
| 108-67-8 | 1,3,5-Trimethylbenzene | 23.8 | | 1.0 | 0.77 |
| 541-73-1 | 1,3-Dichlorobenzene | 24.2 | | 1.0 | 0.78 |
| 106-46-7 | 1,4-Dichlorobenzene | 23.9 | | 1.0 | 0.84 |
| 78-93-3 | 2-Butanone (MEK) | 136 | | 10 | 1.3 |
| 591-78-6 | 2-Hexanone | 139 | | 5.0 | 1.2 |
| 108-10-1 | 4-Methyl-2-pentanone (MIBK) | 135 | | 5.0 | 2.1 |
| 67-64-1 | Acetone | 136 | | 10 | 3.0 |
| 71-43-2 | Benzene | 24.7 | | 1.0 | 0.41 |
| 75-27-4 | Bromodichloromethane | 25.8 | | 1.0 | 0.39 |
| 75-25-2 | Bromoform | 23.5 | | 1.0 | 0.26 |
| 74-83-9 | Bromomethane | 31.2 | | 1.0 | 0.69 |
| 75-15-0 | Carbon disulfide | 24.5 | | 1.0 | 0.19 |
| 56-23-5 | Carbon tetrachloride | 22.4 | | 1.0 | 0.27 |
| 108-90-7 | Chlorobenzene | 24.4 | | 1.0 | 0.75 |
| 75-00-3 | Chloroethane | 31.2 | | 1.0 | 0.32 |
| 67-66-3 | Chloroform | 25.0 | | 1.0 | 0.34 |
| 74-87-3 | Chloromethane | 29.3 | | 1.0 | 0.35 |
| 156-59-2 | cis-1,2-Dichloroethene | 24.8 | | 1.0 | 0.81 |
| 10061-01-5 | cis-1,3-Dichloropropene | 23.7 | | 1.0 | 0.36 |
| 110-82-7 | Cyclohexane | 25.0 | | 1.0 | 0.18 |
| 124-48-1 | Dibromochloromethane | 24.3 | | 1.0 | 0.32 |
| 75-71-8 | Dichlorodifluoromethane | 23.9 | | 1.0 | 0.68 |

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-191587/4
 Matrix: Water Lab File ID: T3040.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5(mL) Date Analyzed: 07/08/2014 11:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (60) ID: 0.25(mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 191587 Units: ug/L

| CAS NO. | COMPOUND NAME | RESULT | Q | RL | MDL |
|------------|---------------------------|--------|---|-----|------|
| 100-41-4 | Ethylbenzene | 24.6 | | 1.0 | 0.74 |
| 98-82-8 | Isopropylbenzene | 24.0 | | 1.0 | 0.79 |
| 79-20-9 | Methyl acetate | 138 | | 2.5 | 0.50 |
| 1634-04-4 | Methyl tert-butyl ether | 26.1 | | 1.0 | 0.16 |
| 108-87-2 | Methylcyclohexane | 23.0 | | 1.0 | 0.16 |
| 75-09-2 | Methylene Chloride | 26.4 | | 1.0 | 0.44 |
| 100-42-5 | Styrene | 24.8 | | 1.0 | 0.73 |
| 127-18-4 | Tetrachloroethene | 23.3 | | 1.0 | 0.36 |
| 108-88-3 | Toluene | 24.0 | | 1.0 | 0.51 |
| 156-60-5 | trans-1,2-Dichloroethene | 23.8 | | 1.0 | 0.90 |
| 10061-02-6 | trans-1,3-Dichloropropene | 25.4 | | 1.0 | 0.37 |
| 79-01-6 | Trichloroethene | 25.2 | | 1.0 | 0.46 |
| 75-69-4 | Trichlorofluoromethane | 27.5 | | 1.0 | 0.88 |
| 75-01-4 | Vinyl chloride | 25.6 | | 1.0 | 0.90 |
| 1330-20-7 | Xylenes, Total | 48.8 | | 2.0 | 0.66 |

| CAS NO. | SURROGATE | %REC | Q | LIMITS |
|------------|------------------------------|------|---|--------|
| 17060-07-0 | 1,2-Dichloroethane-d4 (Surr) | 104 | | 66-137 |
| 460-00-4 | 4-Bromofluorobenzene (Surr) | 98 | | 73-120 |
| 2037-26-5 | Toluene-d8 (Surr) | 97 | | 71-126 |
| 1868-53-7 | Dibromofluoromethane (Surr) | 101 | | 60-140 |

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3040.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 08-Jul-2014 11:11:30 ALS Bottle#: 33 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Misc. Info.: 480-0033584-004
 Operator ID: LH/CN Instrument ID: HP5975T
 Method: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 08-Jul-2014 09:51:19 Calib Date: 27-Jun-2014 20:37:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP5975T\20140627-33352.b\T2737.D
 Column 1 : ZB-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK017

First Level Reviewer: manc

Date: 08-Jul-2014 12:00:48

| Compound | Sig | RT (min.) | Adj RT (min.) | Diff RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|-----------------------------------|-----|-----------|---------------|----------------|-----|----------|--------------|----------------|-------|
| * 153 Fluorobenzene (IS) | 96 | 4.335 | 4.335 | 0.000 | 97 | 479054 | 25.0 | 25.0 | |
| * 2 Chlorobenzene-d5 | 117 | 6.636 | 6.636 | 0.000 | 89 | 369783 | 25.0 | 25.0 | |
| * 3 1,4-Dichlorobenzene-d4 | 152 | 8.491 | 8.491 | 0.000 | 92 | 195785 | 25.0 | 25.0 | |
| \$ 154 Dibromofluoromethane (Surr | 113 | 3.869 | 3.869 | 0.000 | 55 | 122642 | 25.0 | 25.3 | |
| \$ 4 1,2-Dichloroethane-d4 (Sur | 65 | 4.118 | 4.118 | 0.000 | 0 | 159151 | 25.0 | 26.1 | |
| \$ 6 Toluene-d8 (Surr) | 98 | 5.517 | 5.517 | 0.000 | 92 | 452828 | 25.0 | 24.3 | |
| \$ 7 4-Bromofluorobenzene (Surr | 174 | 7.569 | 7.569 | 0.000 | 91 | 135330 | 25.0 | 24.6 | |
| 11 Dichlorodifluoromethane | 85 | 0.905 | 0.905 | 0.000 | 86 | 129580 | 25.0 | 23.9 | |
| 13 Chloromethane | 50 | 1.019 | 1.019 | 0.000 | 89 | 218630 | 25.0 | 29.3 | |
| 14 Vinyl chloride | 62 | 1.102 | 1.102 | 0.000 | 83 | 163678 | 25.0 | 25.6 | |
| 151 Butadiene | 54 | 1.123 | 1.123 | 0.000 | 95 | 170837 | 25.0 | 26.4 | |
| 15 Bromomethane | 94 | 1.320 | 1.320 | 0.000 | 95 | 77893 | 25.0 | 31.2 | |
| 16 Chloroethane | 64 | 1.382 | 1.382 | 0.000 | 97 | 102536 | 25.0 | 31.2 | |
| 17 Trichlorofluoromethane | 101 | 1.537 | 1.537 | 0.000 | 83 | 191223 | 25.0 | 27.5 | |
| 18 Dichlorofluoromethane | 67 | 1.558 | 1.558 | 0.000 | 81 | 201885 | 25.0 | 29.8 | |
| 19 Ethyl ether | 59 | 1.807 | 1.796 | 0.011 | 95 | 140666 | 25.0 | 25.9 | |
| 21 Acrolein | 56 | 1.962 | 1.962 | 0.000 | 65 | 119843 | 125.0 | 128.7 | |
| 20 1,1,2-Trichloro-1,2,2-trif | 101 | 1.962 | 1.962 | 0.000 | 50 | 113837 | 25.0 | 23.5 | |
| 22 1,1-Dichloroethene | 96 | 1.962 | 1.962 | 0.000 | 82 | 105672 | 25.0 | 24.0 | |
| 24 Iodomethane | 142 | 2.097 | 2.097 | 0.000 | 99 | 211102 | 25.0 | 25.4 | |
| 25 Carbon disulfide | 76 | 2.118 | 2.118 | 0.000 | 98 | 417192 | 25.0 | 24.5 | |
| 23 Acetone | 43 | 2.118 | 2.118 | 0.000 | 97 | 345212 | 125.0 | 135.6 | |
| 27 3-Chloro-1-propene | 41 | 2.304 | 2.304 | 0.000 | 83 | 288506 | 25.0 | 27.1 | |
| 28 Methyl acetate | 43 | 2.377 | 2.377 | 0.000 | 100 | 817013 | 125.0 | 138.3 | |
| 30 Methylene Chloride | 84 | 2.429 | 2.429 | 0.000 | 89 | 142414 | 25.0 | 26.4 | |
| 32 trans-1,2-Dichloroethene | 96 | 2.636 | 2.625 | 0.011 | 87 | 131948 | 25.0 | 23.8 | |
| 33 Methyl tert-butyl ether | 73 | 2.636 | 2.636 | 0.000 | 90 | 430231 | 25.0 | 26.1 | |
| 31 2-Methyl-2-propanol | 59 | 2.646 | 2.657 | -0.011 | 75 | 203231 | 250.0 | 247.0 | |
| 34 Acrylonitrile | 53 | 2.708 | 2.708 | 0.000 | 98 | 728248 | 250.0 | 269.6 | |
| 35 Hexane | 57 | 2.802 | 2.802 | 0.000 | 96 | 228765 | 25.0 | 22.5 | |
| 36 1,1-Dichloroethane | 63 | 2.999 | 2.999 | 0.000 | 86 | 283505 | 25.0 | 26.2 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 39 Vinyl acetate | 43 | 3.071 | 3.071 | 0.000 | 97 | 630994 | 50.0 | 54.3 | |
| 42 2,2-Dichloropropane | 77 | 3.444 | 3.444 | 0.000 | 86 | 151315 | 25.0 | 24.8 | |
| 43 cis-1,2-Dichloroethene | 96 | 3.475 | 3.475 | 0.000 | 71 | 144739 | 25.0 | 24.8 | |
| 44 2-Butanone (MEK) | 43 | 3.538 | 3.537 | 0.001 | 97 | 507724 | 125.0 | 135.6 | |
| 47 Chlorobromomethane | 128 | 3.672 | 3.672 | 0.000 | 88 | 73691 | 25.0 | 25.0 | |
| 48 Tetrahydrofuran | 42 | 3.703 | 3.703 | 0.000 | 93 | 138722 | 50.0 | 54.1 | |
| 50 Chloroform | 83 | 3.734 | 3.734 | 0.000 | 83 | 237944 | 25.0 | 25.0 | |
| 52 Cyclohexane | 56 | 3.817 | 3.817 | 0.000 | 97 | 287988 | 25.0 | 25.0 | |
| 51 1,1,1-Trichloroethane | 97 | 3.817 | 3.817 | 0.000 | 88 | 183196 | 25.0 | 24.5 | |
| 53 Carbon tetrachloride | 117 | 3.931 | 3.931 | 0.000 | 77 | 136802 | 25.0 | 22.4 | |
| 54 1,1-Dichloropropene | 75 | 3.942 | 3.942 | 0.000 | 85 | 179866 | 25.0 | 25.6 | |
| 55 Benzene | 78 | 4.118 | 4.118 | 0.000 | 94 | 526343 | 25.0 | 24.7 | |
| 57 1,2-Dichloroethane | 62 | 4.170 | 4.170 | 0.000 | 89 | 221545 | 25.0 | 26.1 | |
| 56 Isobutyl alcohol | 43 | 4.180 | 4.180 | 0.000 | 93 | 197409 | 625.0 | 571.3 | |
| 59 n-Heptane | 43 | 4.263 | 4.263 | 0.000 | 98 | 259681 | 25.0 | 22.2 | |
| 60 Trichloroethene | 95 | 4.605 | 4.605 | 0.000 | 90 | 135969 | 25.0 | 25.2 | |
| 62 Methylcyclohexane | 83 | 4.688 | 4.688 | 0.000 | 94 | 215938 | 25.0 | 23.0 | |
| 63 1,2-Dichloropropane | 63 | 4.791 | 4.802 | -0.011 | 85 | 150224 | 25.0 | 25.1 | |
| 65 Dibromomethane | 93 | 4.905 | 4.895 | 0.010 | 91 | 88225 | 25.0 | 24.8 | |
| 66 1,4-Dioxane | 88 | 4.937 | 4.936 | 0.001 | 93 | 31009 | 500.0 | 444.0 | |
| 67 Dichlorobromomethane | 83 | 5.019 | 5.019 | 0.000 | 90 | 157298 | 25.0 | 25.8 | |
| 69 2-Chloroethyl vinyl ether | 63 | 5.258 | 5.258 | 0.000 | 91 | 99953 | 25.0 | 26.5 | |
| 71 cis-1,3-Dichloropropene | 75 | 5.351 | 5.351 | 0.000 | 83 | 195143 | 25.0 | 23.7 | |
| 72 4-Methyl-2-pentanone (MIBK) | 43 | 5.475 | 5.475 | 0.000 | 98 | 1165790 | 125.0 | 135.3 | |
| 73 Toluene | 92 | 5.569 | 5.569 | 0.000 | 97 | 328926 | 25.0 | 24.0 | |
| 75 trans-1,3-Dichloropropene | 75 | 5.786 | 5.786 | 0.000 | 92 | 174838 | 25.0 | 25.4 | |
| 77 Ethyl methacrylate | 69 | 5.838 | 5.838 | 0.000 | 89 | 169339 | 25.0 | 23.3 | |
| 78 1,1,2-Trichloroethane | 83 | 5.931 | 5.931 | 0.000 | 88 | 103049 | 25.0 | 24.7 | |
| 79 Tetrachloroethene | 166 | 5.962 | 5.962 | 0.000 | 84 | 131811 | 25.0 | 23.3 | |
| 80 1,3-Dichloropropane | 76 | 6.045 | 6.045 | 0.000 | 96 | 215500 | 25.0 | 24.1 | |
| 81 2-Hexanone | 43 | 6.118 | 6.118 | 0.000 | 98 | 845077 | 125.0 | 138.7 | |
| 82 Chlorodibromomethane | 129 | 6.222 | 6.221 | 0.001 | 87 | 103362 | 25.0 | 24.3 | |
| 83 Ethylene Dibromide | 107 | 6.294 | 6.294 | 0.000 | 95 | 124770 | 25.0 | 24.4 | |
| 86 Chlorobenzene | 112 | 6.657 | 6.657 | 0.000 | 93 | 369153 | 25.0 | 24.4 | |
| 89 1,1,1,2-Tetrachloroethane | 131 | 6.729 | 6.729 | 0.000 | 39 | 105997 | 25.0 | 23.9 | |
| 88 Ethylbenzene | 91 | 6.729 | 6.729 | 0.000 | 98 | 647195 | 25.0 | 24.6 | |
| 90 m-Xylene & p-Xylene | 106 | 6.823 | 6.822 | 0.001 | 0 | 252635 | 25.0 | 24.5 | |
| 91 o-Xylene | 106 | 7.133 | 7.133 | 0.000 | 98 | 241866 | 25.0 | 24.3 | |
| 92 Styrene | 104 | 7.154 | 7.154 | 0.000 | 94 | 429586 | 25.0 | 24.8 | |
| 93 Bromoform | 173 | 7.330 | 7.330 | 0.000 | 93 | 54611 | 25.0 | 23.5 | |
| 95 Isopropylbenzene | 105 | 7.413 | 7.413 | 0.000 | 97 | 646726 | 25.0 | 24.0 | |
| 97 Bromobenzene | 156 | 7.672 | 7.672 | 0.000 | 96 | 152674 | 25.0 | 23.7 | |
| 98 1,1,2,2-Tetrachloroethane | 83 | 7.724 | 7.724 | 0.000 | 85 | 172767 | 25.0 | 24.8 | |
| 99 N-Propylbenzene | 91 | 7.745 | 7.745 | 0.000 | 98 | 792943 | 25.0 | 24.3 | |
| 100 1,2,3-Trichloropropane | 110 | 7.755 | 7.755 | 0.000 | 83 | 52214 | 25.0 | 23.5 | |
| 101 trans-1,4-Dichloro-2-buten | 53 | 7.766 | 7.766 | 0.000 | 72 | 62823 | 25.0 | 28.1 | |
| 105 2-Chlorotoluene | 126 | 7.828 | 7.828 | 0.000 | 95 | 151090 | 25.0 | 23.9 | |
| 104 1,3,5-Trimethylbenzene | 105 | 7.890 | 7.890 | 0.000 | 95 | 538837 | 25.0 | 23.8 | |
| 102 4-Chlorotoluene | 91 | 7.911 | 7.911 | 0.000 | 99 | 536189 | 25.0 | 24.7 | |
| 106 tert-Butylbenzene | 134 | 8.149 | 8.149 | 0.000 | 90 | 116705 | 25.0 | 23.4 | |
| 107 1,2,4-Trimethylbenzene | 105 | 8.191 | 8.190 | 0.000 | 98 | 572041 | 25.0 | 24.5 | |
| 109 sec-Butylbenzene | 105 | 8.325 | 8.325 | 0.000 | 94 | 714159 | 25.0 | 24.3 | |

| Compound | Sig | RT (min.) | Adj RT (min.) | Dlt RT (min.) | Q | Response | Cal Amt ug/L | OnCol Amt ug/L | Flags |
|--------------------------------|-----|-----------|---------------|---------------|----|----------|--------------|----------------|-------|
| 110 1,3-Dichlorobenzene | 146 | 8.429 | 8.429 | 0.000 | 96 | 313771 | 25.0 | 24.2 | |
| 111 4-Isopropyltoluene | 119 | 8.450 | 8.449 | 0.001 | 98 | 612901 | 25.0 | 24.6 | |
| 113 1,4-Dichlorobenzene | 146 | 8.501 | 8.501 | 0.000 | 88 | 313263 | 25.0 | 23.9 | |
| 115 n-Butylbenzene | 91 | 8.781 | 8.781 | 0.000 | 98 | 573872 | 25.0 | 24.8 | |
| 116 1,2-Dichlorobenzene | 146 | 8.812 | 8.812 | 0.000 | 95 | 300409 | 25.0 | 24.4 | |
| 117 1,2-Dibromo-3-Chloropropan | 75 | 9.486 | 9.486 | 0.000 | 72 | 23943 | 25.0 | 24.4 | |
| 119 1,2,4-Trichlorobenzene | 180 | 10.118 | 10.118 | 0.000 | 93 | 193546 | 25.0 | 24.9 | |
| 120 Hexachlorobutadiene | 225 | 10.232 | 10.242 | -0.010 | 89 | 84610 | 25.0 | 23.3 | |
| 121 Naphthalene | 128 | 10.336 | 10.336 | 0.000 | 98 | 510715 | 25.0 | 24.3 | |
| 122 1,2,3-Trichlorobenzene | 180 | 10.533 | 10.532 | 0.001 | 93 | 185605 | 25.0 | 25.8 | |

Reagents:

8260 CORP mix_00015

Amount Added: 12.50

Units: uL

GAS CORP mix_00035

Amount Added: 12.50

Units: uL

T_8260_IS_00077

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_Surr_00078

Amount Added: 1.00

Units: uL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP5975T\20140708-33584.b\T3040.D

Injection Date: 08-Jul-2014 11:11:30

Instrument ID: HP5975T

Operator ID: LH/CN

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

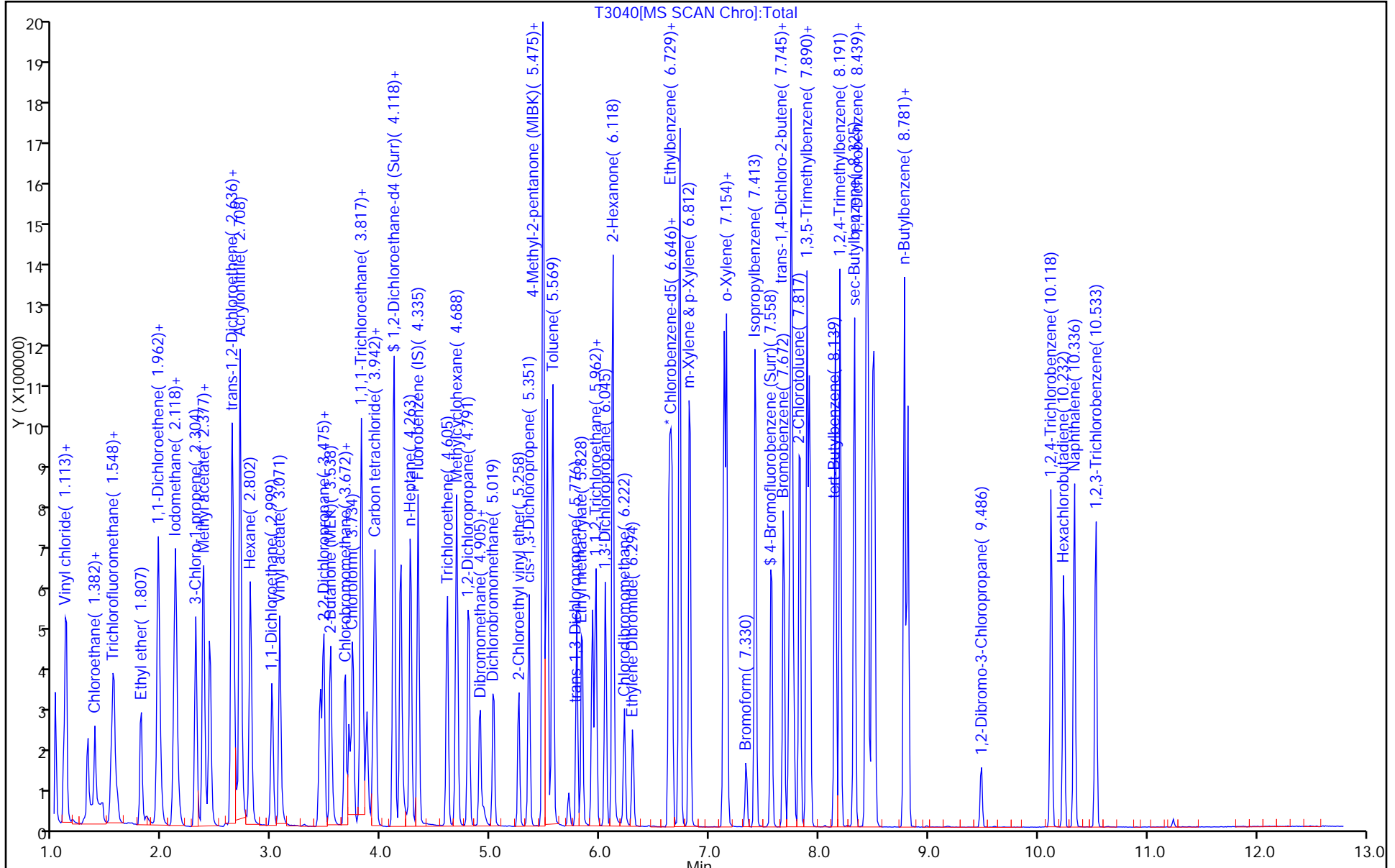
Dil. Factor: 1.0000

ALS Bottle#: 33

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-62726-1

SDG No.: _____

Instrument ID: HP5975T Start Date: 06/27/2014 13:16Analysis Batch Number: 190242 End Date: 06/27/2014 22:12

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|------------------|------------------|-----------------|-------------|-----------------------|
| BFB 480-190242/6 | | 06/27/2014 13:16 | 1 | T2719.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/8 | | 06/27/2014 14:16 | 1 | T2721.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/9 | | 06/27/2014 14:39 | 1 | T2722.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/10 | | 06/27/2014 15:03 | 1 | T2723.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/11 | | 06/27/2014 15:27 | 1 | T2724.D | ZB-624 (60) 0.25 (mm) |
| ICIS 480-190242/12 | | 06/27/2014 15:51 | 1 | T2725.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/13 | | 06/27/2014 16:15 | 1 | T2726.D | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/14 | | 06/27/2014 16:39 | 1 | T2727.D | ZB-624 (60) 0.25 (mm) |
| MDLV 480-190242/16 | | 06/27/2014 17:27 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/18 | | 06/27/2014 18:14 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/19 | | 06/27/2014 18:38 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/20 | | 06/27/2014 19:02 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/21 | | 06/27/2014 19:26 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/22 | | 06/27/2014 19:49 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/23 | | 06/27/2014 20:13 | 1 | | ZB-624 (60) 0.25 (mm) |
| IC 480-190242/24 | | 06/27/2014 20:37 | 1 | | ZB-624 (60) 0.25 (mm) |
| MDLV 480-190242/26 | | 06/27/2014 21:25 | 1 | | ZB-624 (60) 0.25 (mm) |
| ICV 480-190242/27 | | 06/27/2014 21:49 | 1 | | ZB-624 (60) 0.25 (mm) |
| ICV 480-190242/28 | | 06/27/2014 22:12 | 1 | | ZB-624 (60) 0.25 (mm) |

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-62726-1

SDG No.: _____

Instrument ID: HP5975TStart Date: 07/08/2014 09:33Analysis Batch Number: 191587End Date: 07/08/2014 20:27

| LAB SAMPLE ID | CLIENT SAMPLE ID | DATE ANALYZED | DILUTION FACTOR | LAB FILE ID | COLUMN ID |
|--------------------|------------------|------------------|-----------------|-------------|-----------------------|
| BFB 480-191587/1 | | 07/08/2014 09:33 | 1 | T3037.D | ZB-624 (60) 0.25 (mm) |
| CCVIS 480-191587/2 | | 07/08/2014 09:59 | 1 | T3038.D | ZB-624 (60) 0.25 (mm) |
| CCV 480-191587/3 | | 07/08/2014 10:33 | 1 | | ZB-624 (60) 0.25 (mm) |
| LCS 480-191587/4 | | 07/08/2014 11:11 | 1 | T3040.D | ZB-624 (60) 0.25 (mm) |
| MB 480-191587/7 | | 07/08/2014 11:59 | 1 | T3042.D | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 12:31 | 5 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 12:55 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 13:19 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 13:42 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 14:06 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 14:30 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 14:54 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 15:18 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 15:41 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 16:05 | 1 | | ZB-624 (60) 0.25 (mm) |
| 480-62726-1 | Well 1-2A | 07/08/2014 16:29 | 1 | T3053.D | ZB-624 (60) 0.25 (mm) |
| 480-62726-2 | Well 1-3 | 07/08/2014 16:53 | 1 | T3054.D | ZB-624 (60) 0.25 (mm) |
| 480-62726-3 | Trip Blank | 07/08/2014 17:16 | 1 | T3055.D | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 17:40 | 80 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 18:04 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 18:28 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 18:51 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 19:15 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 19:39 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 20:03 | 1 | | ZB-624 (60) 0.25 (mm) |
| ZZZZZ | | 07/08/2014 20:27 | 1 | | ZB-624 (60) 0.25 (mm) |

GC/MS VOA Worksheet

Batch Number: 480-191587

Date Open: Jul 08 2014 9:33AM

Method: 8260C

Batch End:

Analyst: Goliszek, Gregory T

| Lab ID | Client ID | Method Chain | Basis | Initial pH | Initial weight/volume of sample | Final weight/volume of sample | Instrument | 2MTP_WRK_00033 | 3MTP_WRK_00036 |
|--------------------|------------|--------------|-------|------------|---------------------------------|-------------------------------|------------|----------------|----------------|
| BFB~480-191587/1 | | 8260C | | | 1 uL | 1 uL | HP5975T | | |
| CCVIS~480-191587/2 | | 8260C | | | 5 mL | 5 mL | HP5975T | | |
| CCV~480-191587/3 | | 8260C | | | 5 mL | 5 mL | HP5975T | 12.5 uL | 12.5 uL |
| LCS~480-191587/4 | | 8260C | | | 5 mL | 5 mL | HP5975T | | |
| MB~480-191587/7 | | 8260C | | | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-1 | GQWS9 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-2 | GWS5 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-3 | G2ES4 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-3~MS | G2ES4 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-3~MS | G2ES4 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| D | | | | | | | | | |
| 480-62678-A-4 | IES4 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-5 | IES7 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-6 | GES7 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-7 | GQES3 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-8 | GQWS15 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62678-A-9 | TB | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62726-A-1 | Well 1-2A | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62726-A-2 | Well 1-3 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62726-A-3 | Trip Blank | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62867-D-2 | SB-105 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62914-A-1 | DUP-1 | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62914-C-2 | EFFLUENT | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62914-C-3 | MID CARBON | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62914-C-4 | PRE CARBON | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |
| 480-62914-A-5 | TRIP BLANK | 8260C | T | <2 SU | 5 mL | 5 mL | HP5975T | | |

GC/MS VOA Worksheet

Batch Number: 480-191587
 Method: 8260C
 Analyst: Goliszek, Gregory T

Date Open: Jul 08 2014 9:33AM
 Batch End:

| Lab ID | Client ID | Method Chain | Basis | 8260 CORP mix_00015 | ADD CORP mix_00011 | BFB_WRK_00034 | GAS CORP mix_00035 | T_8260_IS_00077 | T_8260_Surr_00078 |
|--------------------|------------|--------------|-------|------------------------|--------------------|---------------|--------------------|-----------------|-------------------|
| BFB~480-191587/1 | | 8260C | | | | 1 uL | | | |
| CCVIS~480-191587/2 | | 8260C | | 12.5 uL | | | 12.5 uL | 1 uL | 1 uL |
| CCV~480-191587/3 | | 8260C | | | 12.5 uL | | | 1 uL | 1 uL |
| LCS~480-191587/4 | | 8260C | | 12.5 uL | | | 12.5 uL | 1 uL | 1 uL |
| MB~480-191587/7 | | 8260C | | | | | | 1 uL | 1 uL |
| 480-62678-A-1 | GQWS9 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-2 | GWS5 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-3 | G2ES4 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-3~MS | G2ES4 | 8260C | T | 12.5 uL | | | 12.5 uL | 1 uL | 1 uL |
| 480-62678-A-3~MS | G2ES4 | 8260C | T | 12.5 uL | | | 12.5 uL | 1 uL | 1 uL |
| D | | | | | | | | | |
| 480-62678-A-4 | IES4 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-5 | IES7 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-6 | GES7 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-7 | GQES3 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-8 | GQWS15 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62678-A-9 | TB | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62726-A-1 | Well 1-2A | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62726-A-2 | Well 1-3 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62726-A-3 | Trip Blank | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62867-D-2 | SB-105 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62914-A-1 | DUP-1 | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62914-C-2 | EFFLUENT | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62914-C-3 | MID CARBON | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62914-C-4 | PRE CARBON | 8260C | T | | | | | 1 uL | 1 uL |
| 480-62914-A-5 | TRIP BLANK | 8260C | T | | | | | 1 uL | 1 uL |

GC/MS VOA Worksheet

Batch Number: 480-191587
Method: 8260C
Analyst: Goliszek, Gregory T

Date Open: Jul 08 2014 9:33AM
Batch End:

| Lab ID | Client ID | Method Chain | Basis | Initial pH | Initial weight/volume of sample | Final weight/volume of sample | Instrument | 2MTP_WRK_00033 | 3MTP_WRK_00036 |
|---------------|-----------|--------------|-------|------------|---------------------------------|-------------------------------|------------|----------------|----------------|
| 480-63254-A-1 | TANK 12 | 8260C | T | 7 SU | 5 mL | 5 mL | HP5975T | | |

GC/MS VOA Worksheet

Batch Number: 480-191587
Method: 8260C
Analyst: Goliszek, Gregory T

Date Open: Jul 08 2014 9:33AM
Batch End:

| Lab ID | Client ID | Method Chain | Basis | 8260 CORP mix_00015 | ADD CORP mix_00011 | BFB_WRK_00034 | GAS CORP mix_00035 | T_8260_IS_00077 | T_8260_Surr_00078 |
|---------------|-----------|--------------|-------|------------------------|--------------------|---------------|--------------------|-----------------|-------------------|
| 480-63254-A-1 | TANK 12 | 8260C | T | | | | | 1 uL | 1 uL |

Shipping and Receiving Documents

Chain of Custody Record

Temperature on Receipt _____

Drinking Water? Yes No



480-62726 Chain of Custody



TAL-4124 (1007)

Client: **ARCADIS** Project Manager: **J. Wyckoff** Chain of Custody Number: **217028**

Address: **855 Route 146, STE 210** Telephone Number (Area Code)/Fax Number: **518-250-7300** Page: **1** of **1**

City: **Clifton Park** State: **NY** Zip Code: **12065** Site Contact: **J. Wyckoff** Lab Contact: _____

Project Name and Location (State): **NYSDOC - Vestal** Carrier/Waybill Number: _____

| Sample I.D. No. and Description (Containers for each sample may be combined on one line) | Date | Time | Matrix | | | | Containers & Preservatives | | | | | Special Instructions/ Conditions of Receipt | | |
|---|---------|------|--------|---------|------|------|----------------------------|-------|------|-----|------|--|-----------|-------|
| | | | Air | Aqueous | Sed. | Soil | Unpres. | H2SO4 | HNO3 | HCl | NaOH | | ZnAc/NaOH | |
| Well 1-2A | 6/25/14 | 1345 | X | | | | | | | 3 | | | | + TMB |
| Well 1-3 | 6/25/14 | 1340 | X | | | | | | | 3 | | | | + TMB |
| Trip Blank | 6/25/14 | - | X | | | | | | | 2 | | | | + TMB |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | |

Analysis (Attach list if more space is needed)

8260 MSB + TMB
X
X
X

Sample Disposal: Return To Client Unknown Poison B Skin Irritant Flammable Non-Hazard Possible Hazard Identification

Disposal By Lab Archive For _____ Months (A fee may be assessed if samples are retained longer than 1 month)

QC Requirements (Specify): **ASP CATS**

1. Relinquished By: **[Signature]** Date: **6/25/14** Time: **1410**

2. Relinquished By: **[Signature]** Date: **6/25/14** Time: **0900**

3. Relinquished By: **[Signature]** Date: _____ Time: _____

Comments: **#3 4.3 TA BUSSE**

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-62726-1

Login Number: 62726
List Number: 1
Creator: Stau, Brandon M

List Source: TestAmerica Buffalo

| 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. | 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 | |

3821 Buck Drive • Cortland, New York 13045

CERTIFICATE OF ANALYSIS
1412533

TOWN OF VESTAL
Scott Groats
701 Vestal Parkway West
Vestal, NY 13850-1363

Project Name: Volatiles
Project / PO Number: N/A
Received: 04/08/2014 14:07
Reported: 04/26/2014 13:27

Client Sample ID: **1-2A Raw**
Lab Sample ID: **1412533-01**

Collected By: Deron Biechele
Sampled: 04/08/2014 12:45

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|---------------------------|----------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|------------------------------|-------------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 89 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2257 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 93 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2257 | DN-CV |

Client Sample ID: 1-2A Finished

Collected By: Deron Biechele

Lab Sample ID: 1412533-02

Sampled: 04/08/2014 12:41

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|-----------------------------|----------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|-------------------------|-------------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analized | Analyst |
|------------------------------|------------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 87 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2321 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 89 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2321 | DN-CV |

Client Sample ID: 1-3 Raw
Lab Sample ID: 1412533-03

Collected By: Deron Biechele
Sampled: 04/08/2014 12:47

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analized | Analyst |
|---------------------------|----------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analized | Analyst |
|------------------------------|-------------|----|----------|-------|--------|-----------|-----------|---------------|---------|
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 89 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2344 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 88 | | | % Rec | 70-130 | EPA 524.2 | 4/9/2014 2344 | DN-CV |

Client Sample ID: 1-3 Finished

Lab Sample ID: 1412533-04

Collected By: Deron Biechele

Sampled: 04/08/2014 12:51

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analized | Analyst |
|---------------------------|----------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |

Member



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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|-------------------------|-------------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|------------------------------|------------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 91 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0008 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 90 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0008 | DN-CV |

Client Sample ID: 4-2 Raw

Lab Sample ID: 1412533-05

Collected By: Deron Biechele

Sampled: 04/08/2014 12:21

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|---------------------------|----------|----|---------------|-------|--------|-----------|-----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | 0.0012 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|------------------------------|-------------|----|---------------|-------|--------|-----------|-----------|----------------|---------|
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | 0.0011 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | 0.0016 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 87 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0032 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 95 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0032 | DN-CV |

 Client Sample ID: **4-2 Finished**

 Lab Sample ID: **1412533-06**

Collected By: Deron Biechele

Sampled: 04/08/2014 12:23

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|---------------------------|----------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|---------------------------|-------------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | N | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|------------------------------|------------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 86 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0743 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 90 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 0743 | DN-CV |

Client Sample ID: **Trip Blank 4-2 Raw**
Lab Sample ID: **1412533-11**

Collected By: Deron Biechele
Sampled: 04/08/2014 09:23

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|---------------------------|----------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 1,1,1,2-Tetrachloroethane | 630-20-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1,1-Trichloroethane | 71-55-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1,2-Trichloroethane | 79-00-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1-Dichloroethane | 75-34-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1-Dichloroethene | 75-35-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,1-Dichloropropene | 563-58-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2,3-Trichlorobenzene | 87-61-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2,3-Trichloropropane | 96-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2,4-Trichlorobenzene | 120-82-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2,4-Trimethylbenzene | 95-63-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2-Dibromoethane | 106-93-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2-Dichlorobenzene | 95-50-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2-Dichloroethane | 107-06-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,2-Dichloropropane | 78-87-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,3,5-Trimethylbenzene | 108-67-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,3-Dichlorobenzene | 541-73-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,3-Dichloropropane | 142-28-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 1,4-Dichlorobenzene | 106-46-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 2,2-Dichloropropane | 594-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 2-Chlorotoluene | 95-49-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |

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CERTIFICATE OF ANALYSIS : 1412533

Subcontracted To: Benchmark Analytics (PA 39-00401)

Subcontracted (Center Valley - GCMS Volatiles)

| Parameter | CAS | DF | Result | Units | PQL | Qualifier | Method | Analyzed | Analyst |
|------------------------------|-------------|----|----------|-------|--------|-----------|-----------|----------------|---------|
| 4-Chlorotoluene | 106-43-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| 4-Isopropyltoluene | 99-87-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Benzene | 71-43-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Bromobenzene | 108-86-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Bromochloromethane | 74-97-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Bromodichloromethane | 75-27-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Bromoform | 75-25-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Bromomethane | 74-83-9 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Carbon tetrachloride | 56-23-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Chlorobenzene | 108-90-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Chloroethane | 75-00-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Chloroform | 67-66-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Chloromethane | 74-87-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| cis-1,2-Dichloroethene | 156-59-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| cis-1,3-Dichloropropene | 10061-01-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Cumene | 98-82-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Dibromochloromethane | 124-48-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Dibromomethane | 74-95-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Dichlorodifluoromethane | 75-71-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Ethylbenzene | 100-41-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Hexachlorobutadiene | 87-68-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| m,p-Xylene | 179601-23-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Methylene chloride | 75-09-2 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| MTBE | 1634-04-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Naphthalene | 91-20-3 | 1 | < 0.0005 | mg/L | 0.0005 | Q | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| n-Butylbenzene | 104-51-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| n-Propylbenzene | 103-65-1 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| o-Xylene | 95-47-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| sec-Butylbenzene | 135-98-8 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Styrene | 100-42-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| tert-Butylbenzene | 98-06-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Tetrachloroethene | 127-18-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Toluene | 108-88-3 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| trans-1,2-Dichloroethene | 156-60-5 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| trans-1,3-Dichloropropene | 10061-02-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Trichloroethene | 79-01-6 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Trichlorofluoromethane | 75-69-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Vinyl chloride | 75-01-4 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Xylenes, Total | 1330-20-7 | 1 | < 0.0005 | mg/L | 0.0005 | | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Surr: 1,2-Dichlorobenzene-d4 | | 94 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 1137 | DN-CV |
| Surr: 4-Bromofluorobenzene | | 93 | | | % Rec | 70-130 | EPA 524.2 | 4/10/2014 1137 | DN-CV |

Laboratory Certifications:

Below is a list of certifications maintained by Microbac Laboratories, Inc. New York Division. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- NYELAP # 10795

-EPA# NY00935

- NYS Ag & Markets #36-142

Qualifiers and Definitions:

- **Q:** Due to matrix effects, not all quality control parameters met acceptance criteria
- **N:** Parameter is not NELAP certified
- **CAS:** Chemical Abstract Series identification for the analyte.
- **DF:** "1" indicates that there was no dilution. Any other number indicates that the sample was diluted by that factor.
- **PQL:** The **Practical Quantitation Limit**, which is defined as the lowest quantitation level of an analyte that can be readily achieved within the specified limits of precision and accuracy of an analytical method during routine laboratory operating conditions. The value may be raised depending on the characteristics or behavior of the target analyte.

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Jennifer Walker
General Manager

Go Green:

Contact nyresults@microbac.com to set up email reporting and invoicing options.

For any feedback concerning our services, please contact Jennifer Walker General Manager, at Jennifer.Walker@microbac.com or 607.753.3403. You may also contact Trevor Boyce President, at president@microbac.com.



1412533



Tentatively Scheduled Date: 4/1/2014

Client: **TOWN OF VESTAL**
 Project: **Volatiles**
 Project Number: **DO NOT SEND TO SAYRE**

PWSID

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

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

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: 1412533-01
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 1245 4-8-14

| | | |
|---------------------------|----------------------|------------------------------|
| Sampling Point: | Frequency | Compliance Start Date |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date |
| Point Type: | | Sample Location: |

| Analysis | Method | Container | Hold |
|----------|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: 1412533-02
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 1241 4-8-14

| | | |
|---------------------------|----------------------|------------------------------|
| Sampling Point: | Frequency | Compliance Start Date |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date |
| Point Type: | | Sample Location: |

| Analysis | Method | Container | Hold |
|----------|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: 1412533-03
Matrix: Drinking Water
Type: Grab

Sampled Date & Time: 1247 4-8-14

| | | |
|---------------------------|----------------------|------------------------------|
| Sampling Point: | Frequency | Compliance Start Date |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date |
| Point Type: | | Sample Location: |

| Analysis | Method | Container | Hold |
|----------|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C

Total Containers: 2



1412533



Tentatively Scheduled Date: 4/1/2014

Client: **TOWN OF VESTAL**
Project: **Volatiles**
Project Number: **DO NOT SEND TO SAYRE**

PWSID

| Sample ID: 1-3 Finished | | | |
|--|----------------|-----------------------|----------------|
| Lab Sample ID: | 1412533-04 | Sampled Date & Time: | 4-8-14 1251 |
| Matrix: | Drinking Water | | |
| Type: | Grab | | |
| Sampling Point: | Frequency | Compliance Start Date | |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date | |
| Point Type: | | Sample Location: | |
| Analysis | Method | Container | Hold |
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 2 |
| Sample ID: 4-2 Raw | | | |
| Lab Sample ID: | 1412533-05 | Sampled Date & Time: | 4-8-14 / 1221 |
| Matrix: | Drinking Water | | |
| Type: | Grab | | |
| Sampling Point: | Frequency | Compliance Start Date | |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date | |
| Point Type: | | Sample Location: | |
| Analysis | Method | Container | Hold |
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 2 |
| Sample ID: 4-2 Finished | | | |
| Lab Sample ID: | 1412533-06 | Sampled Date & Time: | 4-8-14 / 1223 |
| Matrix: | Drinking Water | | |
| Type: | Grab | | |
| Sampling Point: | Frequency | Compliance Start Date | |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date | |
| Point Type: | | Sample Location: | |
| Analysis | Method | Container | Hold |
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 2 |
| Sample ID: Trip Blank 1-2A Raw | | | |
| Lab Sample ID: | 1412533-07 | Sampled Date & Time: | 4-7-14 / 10923 |
| Matrix: | Drinking Water | | |
| Type: | Trip Blank | | |
| Sampling Point: | Frequency | Compliance Start Date | |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date | |
| Point Type: | | Sample Location: | |



1412533



Tentatively Scheduled Date: 4/1/2014

Client: TOWN OF VESTAL

Project: Volatiles

Project Number: DO NOT SEND TO SAYRE

PWSID

| Analysis | Method | Container | Hold |
|--|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 1 |

Sample ID: Trrip Blank 1-2A Finished

Lab Sample ID: 1412533-08

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 4-8-14 0923

Sampling Point: Frequency Compliance Start Date
 Sampling Point ID: Num/Frequency Compliance Stop Date
 Point Type: Sample Location:

| Analysis | Method | Container | Hold |
|--|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 1 |

Sample ID: Trip Blank 1-3 Raw

Lab Sample ID: 1412533-09

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 4-8-14 0923

Sampling Point: Frequency Compliance Start Date
 Sampling Point ID: Num/Frequency Compliance Stop Date
 Point Type: Sample Location:

| Analysis | Method | Container | Hold |
|--|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 1 |

Sample ID: Trip Blank 1-3 Finished

Lab Sample ID: 1412533-10

Matrix: Drinking Water

Type: Trip Blank

Sampled Date & Time: 4-8-14 0923

Sampling Point: Frequency Compliance Start Date
 Sampling Point ID: Num/Frequency Compliance Stop Date
 Point Type: Sample Location:

| Analysis | Method | Container | Hold |
|--|-----------|-----------|------|
| 524.2 | EPA 524.2 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| 01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C | | | |
| Total Containers: | | | 1 |



1412533



Tentatively Scheduled Date: 4/1/2014

Client: **TOWN OF VESTAL**
 Project: **Volatiles**
 Project Number: **DO NOT SEND TO SAYRE**

PWSID

Sample ID: Trip Blank 4-2 Raw

Lab Sample ID: **1412533-11**
 Matrix: Drinking Water
 Type: Trip Blank

Sampled Date & Time: 4-8-14 0923

| | | |
|--------------------|---------------|-----------------------|
| Sampling Point: | Frequency | Compliance Start Date |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date |
| Point Type: | | Sample Location: |

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|-------|-----------|--|----|
| 524.2 | EPA 524.2 | | 14 |
|-------|-----------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C

Total Containers: 1

Sample ID: Trip Blank 4-2 Finished

Lab Sample ID: **1412533-12**
 Matrix: Drinking Water
 Type: Trip Blank

Sampled Date & Time: 4-8-14 0923

| | | |
|--------------------|---------------|-----------------------|
| Sampling Point: | Frequency | Compliance Start Date |
| Sampling Point ID: | Num/Frequency | Compliance Stop Date |
| Point Type: | | Sample Location: |

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|-------|-----------|--|----|
| 524.2 | EPA 524.2 | | 14 |
|-------|-----------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

01_40mL Clear Vial, Ascorbic/HCl, Cool to 4° C

Total Containers: 1

| | | |
|------------------------------|----------------------|---|
| Sampled by: | Date/Time: | Received by: |
| Printed Name: Deron Biechefe | <u>4-8-14 / 1256</u> | Printed Name: |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | <u>4/8/14 1401</u> | Printed Name: <u>Christine Rhodes MUF</u> |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |

As Received at Laboratory: On Ice Yes / No Cooler Temp 9.6

Total Bottles 18

Notes:



Microbac Laboratories, Inc., New York Division
 CERTIFICATE OF ANALYSIS
 J4E0433

TOWN OF VESTAL
 Scott Groats
 701 Vestal Parkway West
 Vestal, NY 13850-1363

Project Name: DO NOT SEND TO SAYRE
 Project / PO Number: N/A
 Received: 05/20/2014 11:59
 Reported: 05/31/2014 13:32

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4E0433-01

Collection Date: 05/20/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)
Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|--------------------------|----------|--------|-------|----------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 1,2-Dichlorobenzene-d4 | 91 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1552 | DN- |
| 4-Bromofluorobenzene | 94 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1552 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4E0433

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4E0433-02

Collection Date: 05/20/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|--------------------------|----------|--------|-------|----------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 1,2-Dichlorobenzene-d4 | 95 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1616 | DN- |
| 4-Bromofluorobenzene | 96 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1616 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4E0433

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4E0433-03

Collection Date: 05/20/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|--------------------------|----------|--------|-------|----------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 1,2-Dichlorobenzene-d4 | 89 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1641 | DN- |
| 4-Bromofluorobenzene | 92 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1641 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4E0433

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
 Lab Sample ID: J4E0433-04

Collection Date: 05/20/14
 Collection Time: N/A
 Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|--------------------------|----------|--------|-------|----------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 1,2-Dichlorobenzene-d4 | 93 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1705 | DN- |
| 4-Bromofluorobenzene | 96 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1705 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4E0433

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4E0433-05

Collection Date: 05/20/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|--------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1-Trichloroethane | 0.0014 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Tetrachloroethene | 0.0013 | 0.0005 | mg/L | | 05/22/14 0000 | 05/22/14 1121 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Trichloroethene | 0.0015 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 1,2-Dichlorobenzene-d4 | 93 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1729 | DN- |
| 4-Bromofluorobenzene | 99 | 70-130 | % Rec | | 05/21/14 0000 | 05/21/14 1729 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4E0433

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4E0433-06

Collection Date: 05/20/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4E0433

Analytical Testing Parameters

Client Sample ID: Trip Blank 4-2 Raw
Lab Sample ID: J4E0433-11

Collection Date: 05/19/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Method, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.

Definitions

- N: Parameter is not NELAP certified
NPDWR: National Primary Drinking Water Regulations
NSDWR: National Secondary Drinking Water Regulations
NYMCL: New York State Method Contamination Level



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4E0433

Cooler Receipt Log:

| | | | |
|--------------------|----------------|--|-----|
| Cooler ID: | Default Cooler | Received On Ice (or not required): | Yes |
| Cooler Temp: | 4.60 °C | Preservation Correct (or not required): | Yes |
| COC/Labels Agree: | Yes | Custody Seals Intact and/or No Evidence of Tampering | Yes |
| Containers Intact: | Yes | | |

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.



Microbac Laboratories, Inc., New York Division

J4E0433

Client: **TOWN OF VESTAL**
 Project: **Volatiles**
 Project Number: **DO NOT SEND TO SAYRE**

Tenatively Scheduled Date: 5/7/2014

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

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

TAT 7 days

Sample ID: 1-2A Raw

Lab Sample ID: **J4E0433-01**
 Matrix: Drinking Water
 Type: Grab

Sampled Date & Time: 5-20-14/1026

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

| Analysis | Method | Container | Hold |
|---------------|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 2

Sample ID: 1-2A Finished

Lab Sample ID: **J4E0433-02**
 Matrix: Drinking Water
 Type: Grab

Sampled Date & Time: 5-20-14 / 1029

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

| Analysis | Method | Container | Hold |
|---------------|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 2

Sample ID: 1-3 Raw

Lab Sample ID: **J4E0433-03**
 Matrix: Drinking Water
 Type: Grab

Sampled Date & Time: 5-20-14/1032

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

| Analysis | Method | Container | Hold |
|---------------|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL



Microbac Laboratories, Inc., New York Division

J4E0433

 Client: **TOWN OF VESTAL**

 Project: **Volatiles**

Tentatively Scheduled Date: 5/7/2014

 Project Number: **DO NOT SEND TO SAYRE**

Total Containers: 2

Sample ID: 1-3 Finished

 Lab Sample ID: **J4E0433-04**

Matrix: Drinking Water

Type: Grab

 Sampled Date & Time: 5-20-14/1035

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 2

Sample ID: 4-2 Raw

 Lab Sample ID: **J4E0433-05**

Matrix: Drinking Water

Type: Grab

 Sampled Date & Time: 5-20-14/1048

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 2

Sample ID: 4-2 Finished

 Lab Sample ID: **J4E0433-06**

Matrix: Drinking Water

Type: Grab

 Sampled Date & Time: 5-20-14/1053

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 2



Microbac Laboratories, Inc., New York Division

J4E0433

Client: **TOWN OF VESTAL**
 Project: **Volatiles**
 Project Number: **DO NOT SEND TO SAYRE**

Tentatively Scheduled Date: 5/7/2014

Sample ID: Trip Blank 1-2A Raw

Lab Sample ID: **J4E0433-07**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14 / 1200

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

| Analysis | Method | Container | Hold |
|--|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | |
| Total Containers: | | | 1 |

Sample ID: Trip Blank 1-2A Finished

Lab Sample ID: **J4E0433-08**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14 / 1200

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

| Analysis | Method | Container | Hold |
|--|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | |
| Total Containers: | | | 1 |

Sample ID: Trip Blank 1-3 Raw

Lab Sample ID: **J4E0433-09**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14 / 1200

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

| Analysis | Method | Container | Hold |
|--|-------------------|-----------|------|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
| <i>Analysis Comments</i> CANT SEND SAMPLES TO SYRE | | | |
| V-40ml Clear Vial, Ascorbic Acid, HCL | | | |
| Total Containers: | | | 1 |



Microbac Laboratories, Inc., New York Division

J4E0433

Client: **TOWN OF VESTAL**
 Project: **Volatiles**
 Project Number: **DO NOT SEND TO SAYRE**

Tentatively Scheduled Date: 5/7/2014

Sample ID: Trip Blank 1-3 Finished

Lab Sample ID: **J4E0433-10**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14/1200

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 1

Sample ID: Trip Blank 4-2 Raw

Lab Sample ID: **J4E0433-11**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14/1200

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 1

Sample ID: Trip Blank 4-2 Finished

Lab Sample ID: **J4E0433-12**
 Matrix: Drinking Water
 Type: Trip Blank
 Sampled Date & Time: 5-19-14/1200

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

| Analysis | Method | Container | Hold |
|----------|--------|-----------|------|
|----------|--------|-----------|------|

| | | | |
|---------------|-------------------|--|----|
| 524.2 VOC REG | EPA 524.2, Rv 4.1 | | 14 |
|---------------|-------------------|--|----|

Analysis Comments CANT SEND SAMPLES TO SYRE

V-40ml Clear Vial, Ascorbic Acid, HCL

Total Containers: 1



Microbac Laboratories, Inc., New York Division


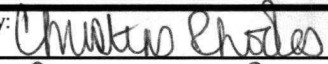
J4E0433

Client: **TOWN OF VESTAL**

Project: **Volatiles**

Tenatively Scheduled Date: 5/7/2014

Project Number: **DO NOT SEND TO SAYRE**

| | | |
|---|--------------|--|
| Sampled by:  | Date/Time: | Received by: |
| Printed Name: Deron Biechele | | Printed Name: |
| Relinquished by: | Date/Time: | Received by:  |
| Printed Name: | 5/20/14 1159 | Printed Name: Christine Rhodes MLI |
| Relinquished by: | Date/Time: | Received by: |
| Printed Name: | | Printed Name: |

As Recieved at Laboratory: On Ice: Yes / No Cooler Temp 4.6

Total Bottles **18**

Notes:

Update reporting options for DOH - Remove Memo after



Microbac Laboratories, Inc., New York Division
 CERTIFICATE OF ANALYSIS
 J4F0388

TOWN OF VESTAL
 Scott Groats
 701 Vestal Parkway West
 Vestal, NY 13850-1363

Project Name: DO NOT SEND TO SAYRE
 Project / PO Number: N/A
 Received: 06/17/2014 12:48
 Reported: 06/28/2014 12:15

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4F0388-01

Collection Date: 06/17/14
Collection Time: 10:48
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)
Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1235 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4F0388-01

Collection Date: 06/17/14
Collection Time: 10:48
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4F0388-02

Collection Date: 06/17/14
Collection Time: 10:53
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
 Lab Sample ID: J4F0388-02

Collection Date: 06/17/14
 Collection Time: 10:53
 Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Hexachlorobutadiene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Naphthalene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| n-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| n-Propylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| sec-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| tert-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| trans-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 1,2-Dichlorobenzene-d4 | 95 | 70-130 | % Rec | | 06/23/14 0000 | 06/23/14 1152 | DN- |
| 4-Bromofluorobenzene | 100 | 70-130 | % Rec | | 06/23/14 0000 | 06/23/14 1152 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4F0388-03

Collection Date: 06/17/14
Collection Time: 10:36
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method: EPA 524.2, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4F0388-03

Collection Date: 06/17/14
Collection Time: 10:36
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4F0388-04

Collection Date: 06/17/14
Collection Time: 10:42
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1412 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4F0388-04

Collection Date: 06/17/14
Collection Time: 10:42
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4F0388-05

Collection Date: 06/17/14
Collection Time: 11:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|---------------|--------|-------|----------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1,1-Trichloroethane | 0.0010 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4F0388-05

Collection Date: 06/17/14
Collection Time: 11:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|---------------|--------|-------|------|---------------|---------------|---------|
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Hexachlorobutadiene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Naphthalene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| n-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| n-Propylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| sec-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| tert-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Tetrachloroethene | 0.0009 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| trans-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Trichloroethene | 0.0014 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 1,2-Dichlorobenzene-d4 | 98 | 70-130 | % Rec | | 06/20/14 0000 | 06/20/14 1323 | DN- |
| 4-Bromofluorobenzene | 101 | 70-130 | % Rec | | 06/20/14 0000 | 06/20/14 1323 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4F0388-06

Collection Date: 06/17/14
Collection Time: 11:06
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/20/14 0000 | 06/20/14 1348 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4F0388-06

Collection Date: 06/17/14
Collection Time: 11:06
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4F0388

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4F0388-07

Collection Date: 06/16/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 06/23/14 0000 | 06/23/14 2330 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4F0388-07

Collection Date: 06/16/14
Collection Time: N/A
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemicals like Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and analysis dates.

Definitions

- N: Parameter is not NELAP certified
NPDWR: National Primary Drinking Water Regulations
NSDWR: National Secondary Drinking Water Regulations
NYMCL: New York State Method Contamination Level

Cooler Receipt Log:

Table with 4 columns: Cooler ID, Cooler Temp, COC/Labels Agree, Containers Intact, and their corresponding status/temperature values.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4F0388

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

A handwritten signature in black ink that reads "Jennifer M. Walker".

Jennifer Walker
General Manager


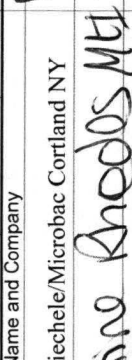
Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

3821 Buck Drive
 Cortland NY 13045
 Phone:(607)753-3403 Fax:(607)753-3415
 NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

| Client Information | | | Billing/Invoice: | | Analysis Requested | | | | | Receiving Info (Lab Use Only) | |
|--|---------|---|------------------|--------------|---|----------|-----|---|--|--|--|
| Name: Town Of Vestal | | | | | | | | | | Ice: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | |
| Address: | | | | | | | | | | Cooler: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> | |
| Contact: | | | | | | | | | | Sample Temp: 4.3 | |
| Phone: | | | | | | | | | | Cooler Seal: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | |
| Project: | | | | | | | | | | Pickup: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | |
| Quote ID: PO#: | | | | | | | | | | Dropoff: C W | |
| Rush TAT Bus. Days: <2 2-5 5-7 7-10 | | | Date Req.: | | | | | | | Accepted? YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> | |
| Carbon Copy: Yes | | | | | | | | | | Container Material | |
| Email Results: Yes | | | | | | | | | | Container Size (in MI) | |
| Fax Results: Yes | | | | | | | | | | Preservative | |
| Sample Information | | | | | Number of Containers for Analysis Requested | | | | | Comments/Field Data | |
| Description/Location | Date | Time | Initial | Matrix Type | Glass | HCL | HCL | | | | |
| 1 1-2A Raw | 6-17-14 | 1048 | DJB | DW G | 5242 | Glass | HCL | 2 | | | |
| 2 1-2A Finished | | 1053 | | DW G | | | | 2 | | | |
| 3 1-3 Raw | | 1036 | | DW G | | | | 2 | | | |
| 4 1-3 Finished | | 1042 | | DW G | | | | 2 | | | |
| 5 4-2 Raw | | 1100 | | DW G | | | | 2 | | | |
| 6 4-2 Finished | 6-17-14 | 1106 | DJB | DW G | | | | 2 | | | |
| 7 Trip Blank | 6-16-14 | | PJB | DW G | | | | 1 | | | |
| 8 | | | | | | | | | | | |
| Print Name and Company | | Signature | | Date/Time | | Comments | | | | | |
| Sampled: Deron Biechele/Microbac Cortland NY | |  | | 6-17-14/1246 | | | | | | | |
| Received: Cristine Rhodes MTL | |  | | 6/17/14 1248 | | | | | | | |
| Received: | | | | | | | | | | | |
| Received: | | | | | | | | | | | |



J4F0388

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



Microbac Laboratories, Inc., New York Division
 CERTIFICATE OF ANALYSIS
 J4G0331

TOWN OF VESTAL
 Scott Groats
 701 Vestal Parkway West
 Vestal, NY 13850-1363

Project Name: DO NOT SEND TO SAYRE
 Project / PO Number: N/A
 Received: 07/22/2014 15:44
 Reported: 08/01/2014 15:54

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4G0331-01

Collection Date: 07/22/14
Collection Time: 09:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1911 | 07/25/14 1911 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Raw
Lab Sample ID: J4G0331-01

Collection Date: 07/22/14
Collection Time: 09:55
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Chemical Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various compounds like cis-1,3-Dichloropropene, Cumene, etc., with their respective results and PQL values.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4G0331-02

Collection Date: 07/22/14
Collection Time: 10:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-2A Finished
Lab Sample ID: J4G0331-02

Collection Date: 07/22/14
Collection Time: 10:00
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4G0331-03

Collection Date: 07/22/14
Collection Time: 10:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/25/14 1959 | 07/25/14 1959 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Raw
Lab Sample ID: J4G0331-03

Collection Date: 07/22/14
Collection Time: 10:05
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
Lab Sample ID: J4G0331-04

Collection Date: 07/22/14
Collection Time: 10:10
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 1-3 Finished
 Lab Sample ID: J4G0331-04

Collection Date: 07/22/14
 Collection Time: 10:10
 Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Ethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Hexachlorobutadiene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| m,p-Xylene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Methylene chloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| MTBE | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Naphthalene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| n-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| n-Propylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| o-Xylene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| sec-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Styrene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| tert-Butylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Tetrachloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Toluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| trans-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| trans-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Trichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Trichlorofluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Vinyl chloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| Xylenes, Total | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 1,2-Dichlorobenzene-d4 | 84 | 70-130 | % Rec | | 07/28/14 1811 | 07/28/14 1811 | DN- |
| 4-Bromofluorobenzene | 92 | 70-130 | % Rec | | 07/28/14 1811 | 07/28/14 1811 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4G0331-05

Collection Date: 07/22/14
Collection Time: 10:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Raw
Lab Sample ID: J4G0331-05

Collection Date: 07/22/14
Collection Time: 10:45
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 9 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds like Ethylbenzene, Hexachlorobutadiene, etc., with their respective test results and PQL values.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4G0331-06

Collection Date: 07/22/14
Collection Time: 10:50
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1859 | 07/28/14 1859 | DN- |



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-2 Finished
Lab Sample ID: J4G0331-06

Collection Date: 07/22/14
Collection Time: 10:50
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemicals like Ethylbenzene, Hexachlorobutadiene, etc., with their respective test results and analyst information.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4G0331-07

Collection Date: 07/21/14
Collection Time: 14:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method: EPA 524.2, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: Trip Blank
Lab Sample ID: J4G0331-07

Collection Date: 07/21/14
Collection Time: 14:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 9 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemicals like Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and PQL values.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4G0331-08

Collection Date: 07/22/14
Collection Time: 11:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 1946 | 07/28/14 1946 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-3 Raw
Lab Sample ID: J4G0331-08

Collection Date: 07/22/14
Collection Time: 11:20
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemicals like Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and PQL values.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4G0331-09

Collection Date: 07/22/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

| | Result | PQL | Units | Note | Prepared | Analyzed | Analyst |
|---------------------------|----------|--------|-------|------|---------------|---------------|---------|
| Method: EPA 524.2 | | | | | | | |
| 1,1,1,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1,1-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1,2,2-Tetrachloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1,2-Trichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,1-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2,3-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2,3-Trichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2,4-Trichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2,4-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2-Dibromoethane | < 0.0005 | 0.0005 | mg/L | N | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2-Dichloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,3,5-Trimethylbenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,3-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,3-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 1,4-Dichlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 2,2-Dichloropropane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 2-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 4-Chlorotoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| 4-Isopropyltoluene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Benzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Bromobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Bromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Bromodichloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Bromoform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Bromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Carbon tetrachloride | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Chlorobenzene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Chloroethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Chloroform | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Chloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| cis-1,2-Dichloroethene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| cis-1,3-Dichloropropene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Cumene | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Dibromochloromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Dibromomethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |
| Dichlorodifluoromethane | < 0.0005 | 0.0005 | mg/L | | 07/28/14 2010 | 07/28/14 2010 | DN- |

Microbac Laboratories, Inc.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 4-4 Raw
Lab Sample ID: J4G0331-09

Collection Date: 07/22/14
Collection Time: 11:30
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 8 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS
J4G0331

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4G0331-10

Collection Date: 07/22/14
Collection Time: 09:07
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with columns: Method: EPA 524.2, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemical compounds and their analysis results.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Analytical Testing Parameters

Client Sample ID: 5-1 Raw
Lab Sample ID: J4G0331-10

Collection Date: 07/22/14
Collection Time: 09:07
Collected By: Deron Biechele

Benchmark Analytics (NY 11827)

Subcontracted (Center Valley - GCMS Volatiles)

Table with 9 columns: Compound Name, Result, PQL, Units, Note, Prepared, Analyzed, Analyst. Lists various chemicals like Ethylbenzene, Hexachlorobutadiene, etc., with their respective results and PQL values.

Definitions

- N: Parameter is not NELAP certified
NPDWR: National Primary Drinking Water Regulations
NSDWR: National Secondary Drinking Water Regulations
NYMCL: New York State Method Contamination Level

Cooler Receipt Log:

Table with 4 columns: Item, Value, Item, Value. Includes Cooler ID, Cooler Temp, COC/Labels Agree, Containers Intact, Received On Ice, Preservation Correct, Custody Seals Intact.



Microbac Laboratories, Inc., New York Division

CERTIFICATE OF ANALYSIS

J4G0331

Report Comments:

In accordance with NYSDOH-ELAP and NELAC, any non-conformance of these regulations are noted directly on the laboratory as qualifiers and/or noted in the case narrative.

Reviewed and Approved By:

A handwritten signature in black ink that reads "Jennifer M. Walker".

Jennifer Walker
General Manager

Go Green:

Contact your project manager to set up email reporting and invoicing options.

For any feedback concerning our services, please contact your Project Manager listed above at 607-753-3403. You may also contact Trevor Boyce President, at president@microbac.com.

3821 Buck Drive
 Cortland NY 13045
 Phone:(607)753-3403 Fax:(607)753-3415
 NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY



J4G0331

| Client Information | | | Billing/Invoice: | | | Analysis Requested | | | Receiving Info (Lab Use Only) | | | |
|------------------------|-------------------------------------|-------|--------------------|------|--|---|--|--|-------------------------------|--------|--------|--|
| Name: | Town Of Vestal | | | | | | | | Ice: | YES NO | YES NO | |
| Address: | | | | | | | | | Cooler: | YES NO | YES NO | |
| Contact: | | | | | | | | | Sample Temp: | 4.9 | | |
| Phone: | | | | | | | | | Cooler Seal: | YES NO | YES NO | |
| Project: | | | | | | | | | Pickup: | YES NO | YES NO | |
| Quote ID: | | | PO#: | | | | | | Dropoff: | C | W | |
| Rush TAT Bus. Days: | <2 2-5 5-7 7-10 | | Date Req.: | | | | | | Accepted? | YES NO | YES NO | |
| Carbon Copy: | Yes | | | | | | | | Container Material | | | |
| Email Results: | Yes | | | | | | | | Container Size(in MI) | | | |
| Fax Results: | Yes | | | | | | | | Preservative | | | |
| Sample Information | | | Matrix | | | Number of Containers for Analysis Requested | | | Comments/Field Data | | | |
| Description/Location | Date | Time | Initial | Type | | | | | | | | |
| 1 | 7-22-14 | 0955 | DSB | DW | | | | | | | | |
| 2 | | 81000 | | DW | | | | | | | | |
| 3 | | 1005 | | G | | | | | | | | |
| 4 | | 1010 | | DW | | | | | | | | |
| 5 | | 1045 | | G | | | | | | | | |
| 6 | | 1050 | | DW | | | | | | | | |
| 7 | 7-22-14 | 1430 | | G | | | | | | | | |
| 8 | | | | DW | | | | | | | | |
| | | | | G | | | | | | | | |
| Print Name and Company | | | Signature | | | Date/Time | | | Comments | | | |
| Sampled: | Deron Brechele/Microbac Cortland NY | | <i>[Signature]</i> | | | 7-22-14/1544 | | | Do Not Send To Sayre | | | |
| Received: | Christine Rhodes MCI | | <i>[Signature]</i> | | | 7/22/14, 544 | | | | | | |
| Received: | | | | | | | | | | | | |
| Received: | | | | | | | | | | | | |

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

3821 Buck Drive
 Cortland NY 13045
 Phone:(607)753-3403 Fax:(607)753-3415
 NY #10795, EPA #NY00935

Microbac Laboratories, Inc. CHAIN OF CUSTODY

J4G0331

| Client Information | | Billing/Invoice: | | Analysis Requested | | Receiving Info (Lab Use Only) | | |
|----------------------|-------------------------------------|------------------|-------------|---|--------------|-------------------------------|----------------------|---------------------|
| Name: | Town Of Vestal | | | | | Ice: | YES NO | |
| Address: | | | | | | Cooler: | YES NO | |
| Contact: | | | | | | Sample Temp: | 4.9 | |
| Phone: | | | | | | Cooler Seal: | YES NO | |
| Project: | | | | | | Pickup: | YES NO | |
| Quote ID: | | PO#: | | | | Dropoff: | C W | |
| Rush TAT Bus. Days: | <2 2-5 5-7 7-10 | Date Req.: | | | | Accepted? | YES NO | |
| Carbon Copy: | Yes | | | | | Container Material | | |
| Email Results: | Yes | | | | | Container Size(in MI) | | |
| Fax Results: | Yes | | | | | Preservative | | |
| Sample Information | | | | Number of Containers for Analysis Requested | | | | Comments/Field Data |
| Description/Location | Date | Time | Initial | Matrix Type | | | | |
| 1 | 4-3 Raw | 7-22-14 | 1120 | DJB | DW | 2 | | |
| 2 | 4-4 Raw | ↓ | 1130 | ↓ | DW | 2 | | |
| 3 | 5-1 Raw | 7-22-14 | 0907 | ↓ | DW | 2 | | |
| 4 | | | | | G | | | |
| 5 | | | | | DW | | | |
| 6 | | | | | G | | | |
| 7 | | | | | | | | |
| 8 | | | | | | | | |
| Sampled: | Deron Biechele/Microbac Cortland NY | | Signature | | Date/Time | | Comments | |
| Received: | Christine Rudes MLI | | [Signature] | | 7-22-14/1544 | | Do Not send To Sayre | |
| Received: | | | [Signature] | | 7/22/14 1544 | | | |
| Received: | | | | | | | | |

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